

SCREENING SITE INSPECTION REPORT

FOR

WOODLAND LDFL INC

SOUTH ELGIN, ILLINOIS

U.S. EPA ID: ILD097282750

SS ID: NONE

TDD: F05-8909-044

PAN: FIL0193SA

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EPA Region 5 Records Ctr.



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OCTOBER 16, 1991



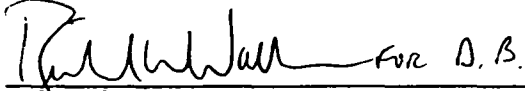
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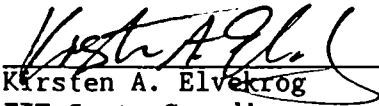
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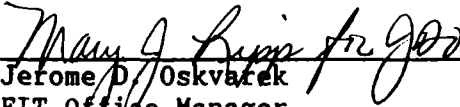
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TABLE OF CONTENTS

<u>Section</u>		<u>Page</u>
1	INTRODUCTION.....	1-1
2	SITE BACKGROUND.....	2-1
	2.1 INTRODUCTION.....	2-1
	2.2 SITE DESCRIPTION.....	2-1
	2.3 SITE HISTORY.....	2-1
3	SCREENING SITE INSPECTION PROCEDURES AND FIELD OBSERVATIONS.....	3-1
	3.1 INTRODUCTION.....	3-1
	3.2 SITE REPRESENTATIVE INTERVIEW.....	3-1
	3.3 RECONNAISSANCE INSPECTION.....	3-1
	3.4 SAMPLING PROCEDURES.....	3-4
4	ANALYTICAL RESULTS.....	4-1
5	DISCUSSION OF MIGRATION PATHWAYS.....	5-1
	5.1 INTRODUCTION.....	5-1
	5.2 GROUNDWATER.....	5-1
	5.3 SURFACE WATER.....	5-3
	5.4 AIR.....	5-4
	5.5 FIRE AND EXPLOSION.....	5-4
	5.6 DIRECT CONTACT.....	5-5
6	REFERENCES.....	6-1

Table of Contents (Cont.)

<u>Appendix</u>	<u>Page</u>
A SITE 4-MILE RADIUS MAP.....	A-1
B U.S. EPA FORM 2070-13.....	B-1
C FIT SITE PHOTOGRAPHS.....	C-1
D U.S. EPA TARGET COMPOUND LIST AND TARGET ANALYTE LIST QUANTITATION/DETECTION LIMITS.....	D-1
E WELL LOGS OF THE AREA OF THE SITE.....	E-1

LIST OF FIGURES

<u>Figure</u>		<u>Page</u>
2-1	Site Location.....	2-2
3-1	Site Features.....	3-3
3-2	Soil/Sediment Sampling Locations.....	3-5
3-3	Monitoring Well Locations.....	3-8

LIST OF TABLES

<u>Table</u>		<u>Page</u>
3-1	Monitoring Well Data.....	3-9
4-1	Results of Chemical Analysis of FIT-Collected Soil/Sediment Samples for the Woodland Site SSI.....	4-2
4-2	Results of Chemical Analysis of FIT-Collected Monitoring Well Samples for the Woodland Site SSI.....	4-5

1. INTRODUCTION

Ecology and Environment, Inc., Field Investigation Team (FIT) was tasked by the United States Environmental Protection Agency (U.S. EPA) to conduct a screening site inspection (SSI) of the Woodland Ldfl Inc (Woodland) site under contract number 68-01-7347.

The site was discovered by the Illinois Environmental Protection Agency (IEPA) in 1976 as the result of Waste Management of North America, Inc. (Waste Management), applying for and receiving a permit from IEPA to develop and operate a landfill at the site (IEPA 1987).

The site was evaluated in the form of a preliminary assessment (PA) that was submitted to U.S. EPA. The PA was prepared by Ken Bechely, IEPA, and is dated December 5, 1979 (U.S. EPA 1979).

FIT prepared an SSI work plan for the Woodland site under technical directive document (TDD) F05-8704-044, issued on April 1, 1987. The SSI work plan was approved by U.S. EPA on September 25, 1989. The SSI of the Woodland site was conducted on August 20 and 21, 1990, under TDD F05-8909-044, issued on September 27, 1989.

The FIT SSI included an interview with site representatives, a reconnaissance inspection of the site, and the collection of 10 soil/sediment samples and 6 monitoring well samples.

The purposes of an SSI have been stated by U.S. EPA in a directive outlining Pre-Remedial Program strategies. The directive states:

All sites will receive a screening SI to 1) collect additional data beyond the PA to enable a more refined preliminary HRS [Hazard Ranking System] score, 2) establish priorities among sites most likely to qualify for

the NPL [National Priorities List], and 3) identify the most critical data requirements for the listing SI step. A screening SI will not have rigorous data quality objectives (DQOs). Based on the refined preliminary HRS score and other technical judgement factors, the site will then either be designated as NFRAP [no further remedial action planned], or carried forward as an NPL listing candidate. A listing SI will not automatically be done on these sites, however. First, they will go through a management evaluation to determine whether they can be addressed by another authority such as RCRA [Resource Conservation and Recovery Act].... Sites that are designated NFRAP or deferred to other statutes are not candidates for a listing SI.

The listing SI will address all the data requirements of the revised HRS using field screening and NPL level DQOs. It may also provide needed data in a format to support remedial investigation work plan development. Only sites that appear to score high enough for listing and that have not been deferred to another authority will receive a listing SI. (U.S. EPA 1988)

U.S. EPA Region V has also instructed FIT to identify sites during the SSI that may require removal action to remediate an immediate human health or environmental threat.

2. SITE BACKGROUND

2.1 INTRODUCTION

This section presents information obtained from SSI work plan preparation, the site representative interview, and the reconnaissance inspection of the site.

2.2 SITE DESCRIPTION

The Woodland site is an active landfill consisting of three adjacent, permitted landfill areas (Phase I, Phase II, and Phase III) that total approximately 121 acres. The site is permitted to accept general refuse and nonhazardous special waste (IEPA 1987; McDonnell and Hruby 1990). The site is located north of the intersection of Route 25 and Gilbert Street in South Elgin, Kane County, Illinois (SW1/4 sec. 36, T.41N., R.8E.; SE1/4SE1/4 sec. 35, T.41N., R.8E.; NE1/4NE1/4 sec. 2, T.40N., R.8E.; and NW1/4 sec. 1, T.40N., R.8E.) (see Figure 2-1 for site location). The site is adjacent to the southeastern side of South Elgin's corporate limits and is located approximately 2,000 feet east of the Fox River.

A 4-mile radius map of the Woodland site is provided in Appendix A.

2.3 SITE HISTORY

The Woodland site is currently owned under Trust #8-1735, administered by Oak Brook Bank of Oak Brook, Illinois (IEPA 1987; McDonnell and Hruby 1990). The site has been owned under the trust since at least 1976. It is not known when the trust was first administered. According to IEPA, in 1986 ARC Disposal Company, Inc., Waste Management of

Illinois, Inc., and Tri-County Landfill Company, Inc., were each holding one-third beneficial interest in the trust (Eastep 1986). Waste Management has been leasing the site since approximately 1976, when the company first began landfilling general refuse and nonhazardous special waste on-site (IEPA 1987; McDonnell and Hruby 1990). The site is part of an abandoned sand and gravel mining operation where commercial operations took place until the 1940s (Patrick Engineering 1983; McDonnell and Hruby 1990). The owner and operator of the site during the period it was used for mining is not known. Between that time and 1976 the site was not in use (Patrick Engineering 1983). It is not known who owned the site during this time. Ownership of the site has not changed since the landfill operations began in 1976 (McDonnell 1990).

Phase I, approximately 55 acres, was issued a development permit (1976-23-DE) by IEPA on June 17, 1976, and an operating permit (1976-23-OP) on December 8, 1976. Phase I was issued supplemental permits (1976-492-SP and 1976-552-SP) on September 8, 1976, and October 4, 1976. As part of the permitting process, four monitoring wells were installed on-site by Testing Service Corporation in November 1976 for Waste Management. Further details regarding the permits are not available in FIT files (IEPA 1987).

On February 7 and 8, 1978, IEPA conducted on-site groundwater sampling and off-site surface water sampling at Phase I under the state's Regional Water Quality Monitoring Program because the landfill and adjacent area were under consideration as a designated wetland by the U.S. Army Corps of Engineers. Eleven samples were collected, including samples from four monitoring wells and two springs (the exact locations of these springs are not known), and five surface water samples, most likely from an on-site drainage ditch that empties into a tributary of Brewster Creek. Surface water samples collected included one upstream of the site, three mid-site, and one downstream. Analytical results of all groundwater samples showed levels of iron and manganese exceeding state groundwater standards. One sample showed that parameters for zinc, sulfate, lead, and rate of evaporation (ROE) exceeded state groundwater standards. IEPA concluded that surface water sample results indicated that no apparent significant degradation of water quality had as yet occurred. One of the springs was later identified as a leachate

seep because sample analysis showed abnormally high levels of iron and barium, the presence of oil and phenolics, and abnormally high chemical oxygen demand and ROE (IEPA 1978).

According to IEPA, the leachate seep was probably not attributable to Phase I because of the relative newness of the landfill, its distance from the leachate spring, and the fact that a wetland area was located between the site and the spring. IEPA stated that the leachate spring was probably attributable to Tri-County Landfill, located directly east of the site. Because the groundwater samples were not filtered, some parameters may have reflected higher levels than were actually present in the groundwater (IEPA 1978).

On July 26, 1978, the Woodland site was cited by IEPA for violations that included unsatisfactory intermediate cover, and incorrect trench sequencing, sizing, and placement (Bechely 1978). The landfill was issued supplemental permits on July 20, 1978 (1978-1312-SP), September 7, 1978 (1978-1646-SP), and June 8, 1979 (1979-916-SP). Further details of these permits are not available in FIT files (IEPA 1987).

According to the PA completed by IEPA on December 5, 1979, the landfill received the following quantities of waste per year: 9,000 cubic yards of Publicly Owned Treatment Works (POTW) sludge, 1,040 cubic yards of oily wastes, 2,640 cubic yards of baghouse dust, and 1,000,000 cubic yards of municipal garbage, as well as an undetermined quantity of polyester resin and "industrial scum waste." The PA also indicates that monthly IEPA inspections were being performed and that the landfill was well maintained and in general compliance with state rules and regulations (U.S. EPA 1979).

In August 1980, the village of South Elgin received complaints from residents concerning strong odors from the Woodland site (Rolando 1980). IEPA was notified and, in response to the complaints, conducted an inspection at the site on August 21, 1980. While on-site, IEPA noted that inadequate daily cover was being provided and a strong odor was detectable. During follow-up inspections on August 22 and 28, IEPA noted the situation had been corrected through the application of adequate daily cover to the active fill area; no odors were detected (Bechely 1980).

The site received an additional supplemental permit (1983-33-SP) on March 22, 1983. Further details of this permit are not available in FIT files (IEPA 1987). Phase I was closed and covered in 1983, when it was filled to capacity.

On August 4, 1983, IEPA issued a permit to Waste Management (1983-18-DE) to develop an additional general refuse and nonhazardous special waste landfill (Phase II or Woodland II) to be located southeast of Phase I. The permit called for the development of an additional 48 acres, and included designs for a leachate collection system, a methane collection system, an engineered liner which consisted of compacted clay side seals and a dike, a patchwork of compacted clay bottom seals in areas where the natural silty clay is not continuous or of adequate thickness, and a monitoring well network consisting of six wells placed around the site (Patrick Engineering 1983).

On September 28, 1984, Phase I received an additional supplemental permit (1984-766-SP). Further details of this permit are not available in FIT files (IEPA 1987).

On January 24, 1986, IEPA issued Phase II a supplemental permit (1985-201-SP) that revised the initial developmental permit (IEPA 1987). Minor modifications to the descriptions of the site boundaries were made at this time. FIT has no additional information regarding these modifications.

Sometime after May 1989, a naturally occurring wetland originally located in the central eastern portion of the Phase I area was relocated to the northwest corner of the site where landfilling had not taken place. File information indicates that the relocation was performed to provide additional space for the expansion of Phase II landfill activities (McSwiggin 1989). FIT has no information on how the relocation was accomplished.

Phase III of the Woodland site, or Woodland Landfill III, consists of 28 acres in the northernmost portion of the site. Plans for Phase III called for a constructed liner consisting of a 10-foot clay layer to overlies the naturally occurring sand and silt layer, which acted as a secondary liner. Phase III was designated for the disposal of nonhazardous municipal, commercial, and construction wastes and selected special solid wastes (Eastep 1989). Plans for Phase III were to be implemented

in 1990; however, at the time of the SSI, no landfilling activity had occurred in the area designated as Phase III.

At the time of the FIT SSI, only Phase II of the Woodland site was active. Approximately 4,000 cubic yards of waste materials are land-filled at the site on a daily basis. No other regulatory or enforcement activities at the site have been noted. Approximately 15 workers are employed on-site (McDonnell 1990).

3. SCREENING SITE INSPECTION PROCEDURES AND FIELD OBSERVATIONS

3.1 INTRODUCTION

This section outlines procedures and observations of the SSI of the Woodland site. Individual subsections address the site representative interview, reconnaissance inspection, and sampling procedures. Rationales for specific FIT activities are also provided. The SSI was conducted in accordance with the U.S. EPA-approved work plan, with the following exceptions. The work plan called for three subsurface soil samples, six surface soil samples, and one background sample. However, during the SSI, FIT observed drainage ditches leading from the site and determined that, to better characterize site conditions, five sediment samples would be substituted for one subsurface soil sample and four surface soil samples.

The U.S. EPA Potential Hazardous Waste Site Inspection Report (Form 2070-13) for the Woodland site is provided in Appendix B.

3.2 SITE REPRESENTATIVE INTERVIEW

Daniel Sullivan, FIT team leader, conducted an interview with John McDonnell, Environmental Engineering Manager, and Janet Hruby, Site Environmental Engineer, Waste Management. The interview was conducted on August 20, 1990, at 3:00 p.m. at C.I.D. Landfill, 138th and Calumet Expressway, Calumet City, Illinois. The interview was conducted to gather information that would aid FIT in conducting SSI activities.

3.3 RECONNAISSANCE INSPECTION

FIT conducted a reconnaissance inspection of the Woodland site and surrounding area in accordance with Ecology and Environment, Inc.

(E & E), health and safety guidelines. The reconnaissance inspection began at 10:10 a.m. on August 21, 1990, and included a walk-through of the site to determine appropriate health and safety requirements for conducting on-site activities and to make observations to aid in characterizing the site. FIT also determined sampling locations during the reconnaissance inspection. FIT was accompanied by site representative McDonnell during the reconnaissance inspection.

Reconnaissance Inspection Observations. The Woodland site is bordered to the north by Middle Street and open fields. An open field and an inactive landfill border the site to the east. The southernmost portion of the site is bordered by State Route 25; Gilbert Street borders the site to the southwest and west. Chicago and North Western Railroad tracks are located west of Gilbert Street.

The Woodland site consists of a landfill that was opened in three phases (see Figure 3-1 for site features). Phase I is an irregularly shaped parcel measuring approximately 55 acres and is located between Phases II and III. Phase II is located southeast of Phase I and consists of 48 acres. Phase II was the only section in use at the time of the SSI. Phase III is located directly north of Phase I and is a rectangular parcel consisting of 28 acres. The site is accessed from Gilbert Street via an entrance approximately 1,000 feet northwest of State Route 25. An access road leads from the entrance to the approximate center of the site and runs through Phases I and II of the landfill. The site is completely fenced and activity at the site is monitored by a check-in station that is located at the entrance of the site. FIT has no information regarding what hours the check-in station is staffed.

Two buildings are located on-site in Phase I. A trailer, used as both an office and the check-in station, and a maintenance garage, are located north of the access road.

Phase I has been filled and is currently inactive. The southwest portion of Phase I has been covered and seeded and is well vegetated. FIT observed large gullies along the western portion of this area. The northern portion of Phase I is covered, but has not been seeded.

Phase II, the active portion of the landfill, is located east of the access road. FIT observed that trucks loaded with wastes to be

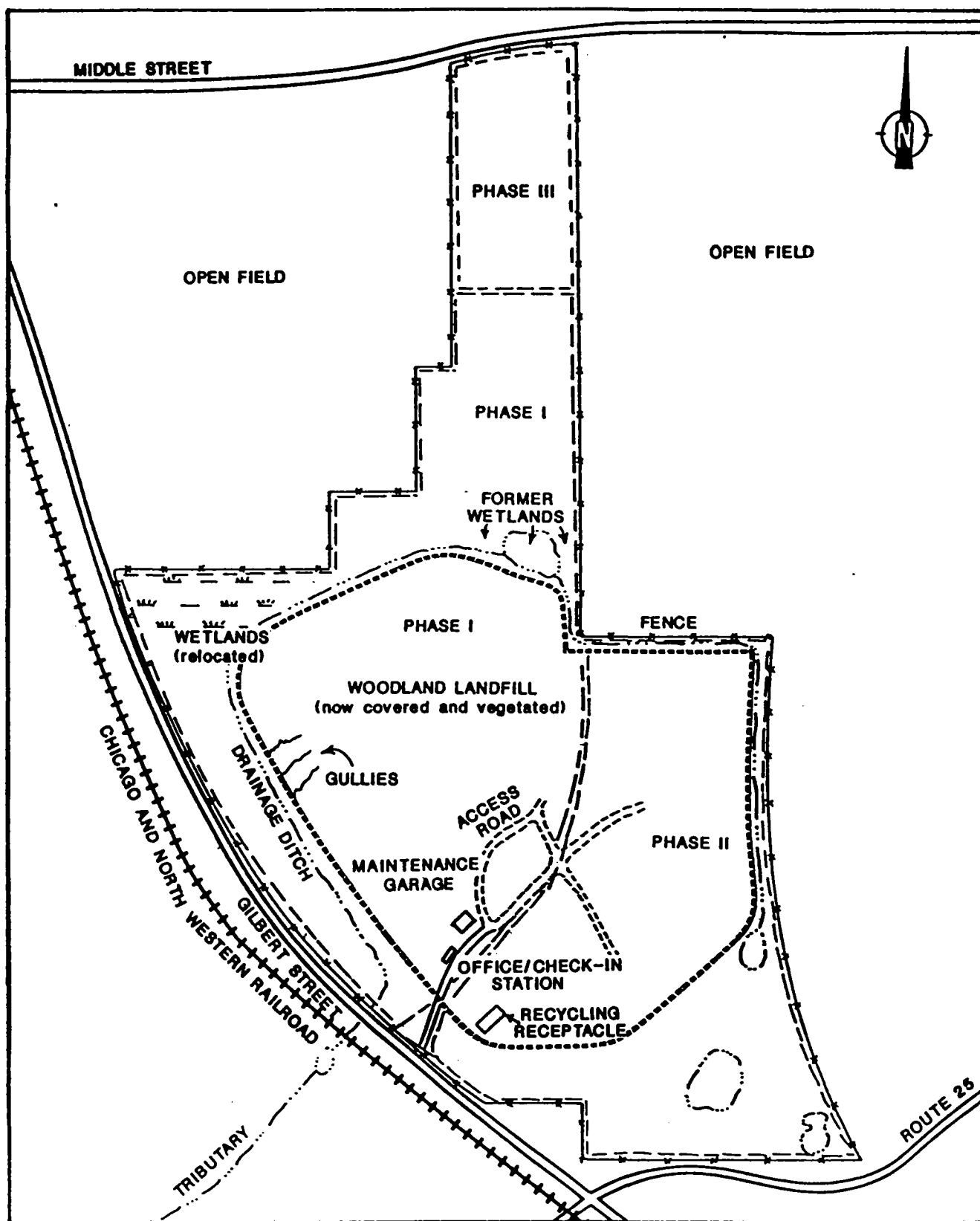


FIGURE 3-1 SITE FEATURES

landfilled were arriving at the site every 15 to 20 minutes. A recycling receptacle is located in the southern portion of Phase II.

A natural wetlands was previously located in the central eastern portion of Phase I (McSwiggin 1989). The wetlands were relocated west of the Phase I fill area. A drainage ditch encircles the vegetated portion of Phase I to the west and north and partially encircles Phase II to the north and east. This ditch was constructed as part of the wetlands relocation project in an effort to reroute water that previously flowed under the filled areas (McSwiggin 1989). Water in this ditch flows to the south, off-site into a tributary of Brewster Creek, located southwest of the site, which in turn flows into the Fox River, approximately 1/2 mile west of the site.

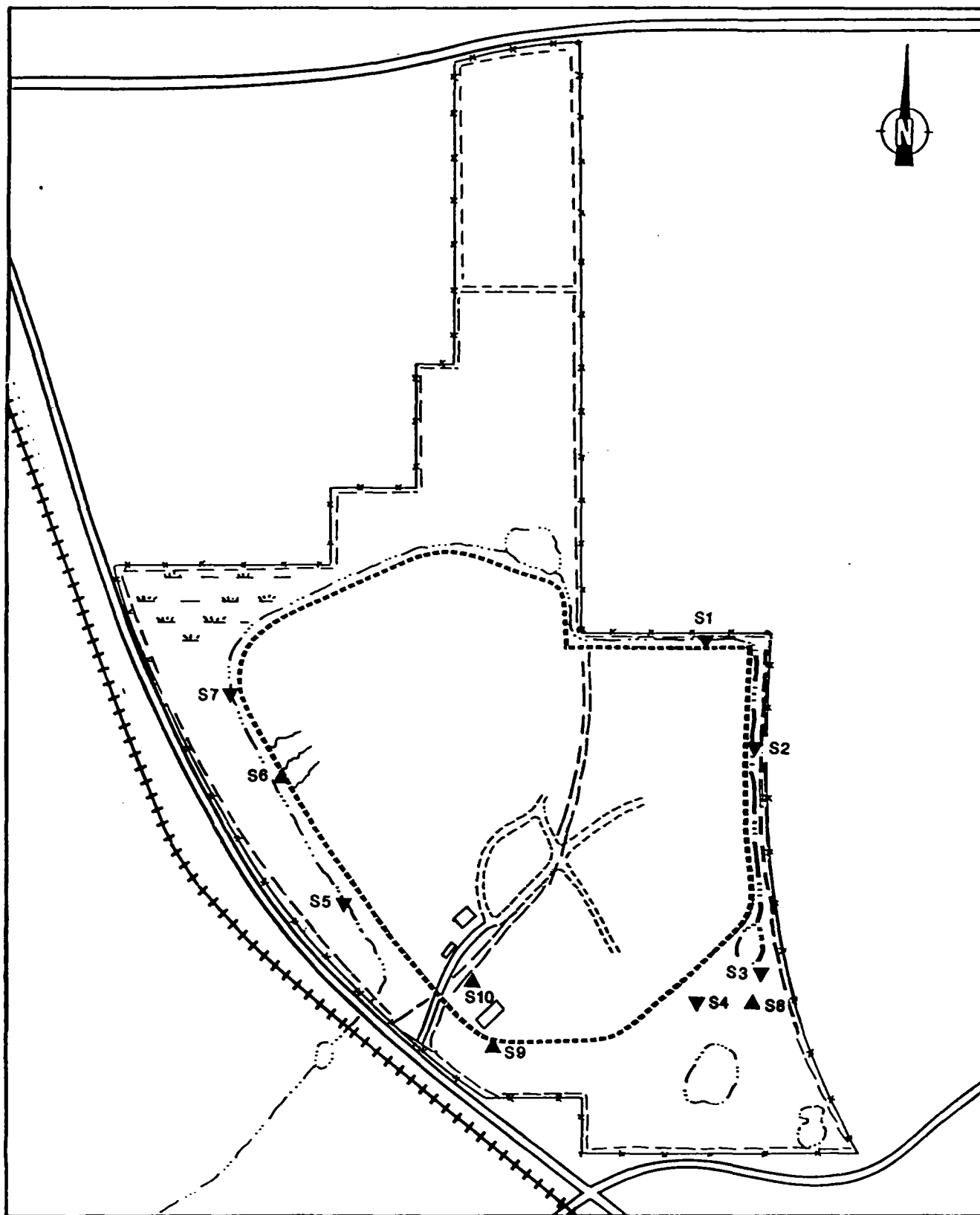
All of the filled areas have been graded to slope toward the outer boundaries of the site. The areas south and east of the fill areas are predominantly flat. The area west of Phase I slopes to the east, toward the drainage ditch.

FIT photographs from the SSI of the Woodland site are provided in Appendix C.

3.4 SAMPLING PROCEDURES

Samples were collected by FIT at locations selected during the reconnaissance inspection to determine whether U.S. EPA Target Compound List (TCL) compounds or Target Analyte List (TAL) analytes were present at the site. The TCL and TAL are included with corresponding quantitation/detection limits in Appendix D. A portion of each soil/sediment and monitoring well sample was offered to the site representatives. A portion of each monitoring well sample was accepted by the site representatives. The site representatives did not accept offered portions of soil/sediment samples.

Soil/Sediment Sampling Procedures. Sediment sample S1 was collected from the drainage ditch that borders Phase II to the north (see Figure 3-2 for soil/sediment sampling locations). Sediment sample S2 was also collected from the drainage ditch, at the eastern border of Phase II, approximately 600 feet southeast of sample S1. Sediment sample S3 was also collected from the eastern border of Phase II, approximately 1,200 feet south of sample S2. Sediment sample S4 was



SCALE
0 500 1,000 1,500 2,000 FEET

LEGEND
▲ SOIL ▼ SEDIMENT

FIGURE 3-2 SOIL/SEDIMENT SAMPLING LOCATIONS

collected from the southeastern portion of the site, approximately 400 feet southwest of sample S3. Sediment sample S5 was collected from the drainage ditch at the western side of Phase I, approximately 600 feet northwest of the access road. Sediment sample S7 was collected from the northwestern area of the site, just south of the relocated wetlands area. Sediment samples S1, S2, S3, S4, S5, and S7 were collected to determine whether TCL compounds and/or TAL analytes were migrating off-site via the drainage ditch.

Subsurface soil sample S6 was collected adjacent to the drainage ditch on the western side of Phase I, approximately 1,000 feet north-northwest of sediment sample S5, at a depth of approximately 1 1/2 feet.

Subsurface soil sample S8 was collected from the southeastern area of the site, approximately 200 feet south of sample S3, at a depth of approximately 2 feet. Soil sample S9 was collected from the southern border of Phase II, approximately 300 feet north of the south site boundary.

Soil sample S10 was collected approximately 400 feet north-northwest of sample S9, in an undisturbed and vegetated area. Sample S10 was collected as a potential background soil sample to determine the representative chemical content of the soil in the area of the site. Samples S1, S2, S3, S4, S5, S7, S9, and S10 were collected at depths of approximately 4 inches. A trowel was used to collect all samples, with the exception of samples S6 and S8, which were collected with a trowel, bowl, and auger.

Soil samples S6, S8, and S9 were collected to determine whether TCL compounds and/or TAL analytes were present in soils at or near the surface of the boundaries of the areas used for landfilling purposes.

The sample portions collected for volatile organic analysis were transferred directly to sample bottles. The remaining sample portions were placed into a stainless steel bowl, mixed, and then transferred to the appropriate sample bottles, using a hand trowel (E & E 1987).

Standard E & E decontamination procedures were adhered to during the collection of all soil/sediment samples. The procedures included the scrubbing of all equipment (e.g. trowels, bowls, and hand auger) with a solution of detergent (Alconox) and distilled water, and triple-rinsing the equipment with distilled water before the collection of

each sample (E & E 1987). All soil/sediment samples were packaged and shipped in accordance with U.S. EPA-required procedures.

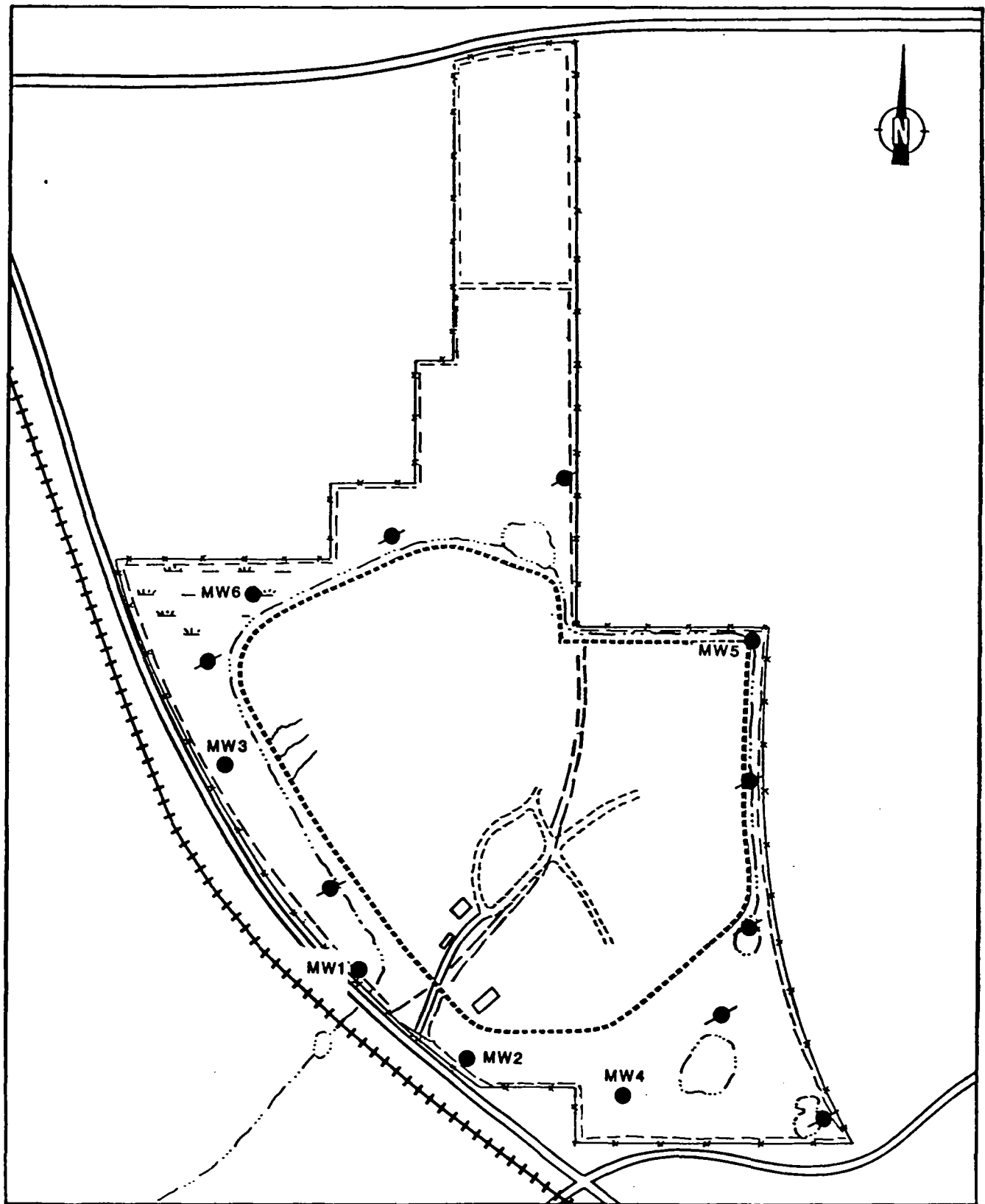
As directed by U.S. EPA, all soil/sediment samples were analyzed using the U.S. EPA Contract Laboratory Program (CLP).

Monitoring Well Sampling Procedures. Six monitoring well samples were collected at the Woodland site, including a sample from a potentially upgradient well. Monitoring well samples were collected to characterize groundwater in the area of the site and to determine whether TCL compounds or TAL analytes have migrated to groundwater. Monitoring well MW1 is located in the southwest portion of the site, immediately east of Gilbert Street (see Figure 3-3 for monitoring well locations). Monitoring well MW2 is located approximately 200 feet southeast of the entrance to the site. Monitoring well MW3 is located approximately 1,400 feet northwest of MW1, in the central western portion of the site. Monitoring well MW4 is located in the south-central portion of the site. Monitoring well MW5 is located in the northeastern corner of Phase II. Monitoring well MW5 is a potentially upgradient well that was sampled to determine the representative chemical content of groundwater in the area of the site. Monitoring well MW6 is located in the wetland area northwest of Phase I of the landfill.

Based on information gathered by FIT during the sampling of monitoring wells, two aquifers, one shallow and one deep, are located beneath the site. Groundwater in the shallow aquifer flows in a west-northwesterly direction, while groundwater in the deeper aquifer is believed to flow west (see Table 3-1 for monitoring well data).

In accordance with U.S. EPA quality assurance/quality control requirements, a duplicate monitoring well sample and a field blank sample were collected. The duplicate sample was collected at location MW2. The field blank sample was prepared from distilled water.

All monitoring wells were purged of three to five volumes of standing water prior to the collection of each sample. All monitoring well samples were collected with stainless steel bailers that have been scrubbed with a solution of detergent (Alconox) and distilled water, and triple-rinsed with distilled water prior to the collection of each sample (E & E 1987).



SCALE
0 500 1,000 1,500 2,000 FEET

LEGEND
● SAMPLED ● NOT SAMPLED

FIGURE 3-3 MONITORING WELL LOCATIONS

Table 3-1

MONITORING WELL DATA

Well	Top-of-Casing Elevation* (feet above mean sea level)	Well Depth (feet)	Depth to Water (feet)	Elevation of Water (feet above mean sea level)
MW1	728.6	95.54	16.38	712.22
MW2	737.8	50.59	22.46	715.34
MW3	Unknown	133.40	44.12	NA
MW4	749.5	57.90	35.59	713.91
MW5	761.3	61.70	28.56	732.74
MW6	728.8	139.02	40.75	688.05

* Information obtained from well logs.

NA Not available.

As directed by U.S. EPA, all monitoring well samples were analyzed using the U.S. EPA Central Regional Laboratory (CRL) of Chicago, Illinois, for the monitoring well inorganic portion, and the U.S. EPA CLP for the monitoring well organic portions.

4. ANALYTICAL RESULTS

This section presents results of the chemical analysis of soil/sediment and monitoring well samples collected by FIT during the SSI of the Woodland site. All samples were analyzed for volatile organics, semivolatile organics, pesticides/polychlorinated biphenyls (PCBs), metals, and cyanide. Complete chemical analysis results of FIT-collected soil/sediment and monitoring well samples are provided in Tables 4-1 and 4-2.

Quantitation/detection limits used in the analysis of FIT-collected samples are provided in Appendix D.

The analytical data from the chemical analysis of FIT-collected samples for this SSI have been reviewed under the direction of U.S. EPA for validity; the review has been approved by U.S. EPA. The analytical data have also been reviewed by FIT for usability. Any additions, deletions, or changes resulting from review of the data have been incorporated in the chemical analysis results tables presented in this section.

Zurick, Rick, August 9, 1991, Director, South Elgin Water Department,
telephone conversation, contacted by Deborah Barrett of E & E.

7339:2

**Table 4-1
RESULTS OF CHEMICAL ANALYSIS OF
FIT-COLLECTED SOIL/SEDIMENT SAMPLES
FOR THE WOODLAND SITE SSI**

Sample Collection Information and Parameters	S1	S2	S3	S4	S5	Sample Number S6	S7	S8	S9	S10
Date	8/21/90	8/21/90	8/21/90	8/21/90	8/21/90	8/21/90	8/21/90	8/21/90	8/21/90	8/21/90
Time	1218	1228	1243	1259	1420	1435	1445	1535	1600	1625
CLP Organic Traffic Report Number	ELY54	ELY55	ELY56	ELY57	ELY58	ELY59	ELY60	ELY61	ELY62	ELY63
CLP Inorganic Traffic Report Number	MELF50	MELF51	MELF52	MELF53	MELF54	MELF55	MELF56	MELF57	MELF58	MELF59
<u>Compound Detected</u> (values in µg/kg)										
<u>Volatile Organics</u>										
carbon disulfide	--	--	--	2J	--	--	--	--	--	--
1,2-dichloroethene (total)	--	--	--	2J	--	2J	--	--	--	--
trichloroethene	--	--	3J	3J	--	3J	--	--	--	--
tetrachloroethene	--	--	3J	3J	--	3J	--	--	--	3J
toluene	--	--	4J	5J	720J	4J	--	--	--	--
<u>Semivolatile Organics</u>										
pentachlorophenol	--	100J	--	--	--	--	200J	--	--	160J
phenanthrene	--	--	--	330J	--	--	--	--	--	--
fluoranthrene	--	--	--	430J	--	--	--	--	--	99J
pyrene	--	--	--	400J	--	--	--	--	--	--
butylbenzylphthalate	--	--	--	140J	--	--	--	--	--	570J
benzo[a]anthracene	--	--	--	210J	--	--	--	--	--	--
chrysene	--	--	--	250J	--	--	--	--	--	--
bis(2-ethylhexyl)phthalate	--	150J	120J	490J	--	340J	330J	76J	95J	340J
di-n-octylphthalate	--	--	--	110J	--	--	--	--	--	--
benzo[b]fluoranthene	--	--	--	230J	--	--	--	--	93J	--
benzo[k]fluoranthene	--	--	--	210J	--	--	--	--	--	--
benzo[a]pyrene	--	--	--	210J	--	--	--	--	--	--
indeno[1,2,3-cd]pyrene	--	--	--	180J	--	--	--	--	--	--
benzo[g,h,i]perylene	--	--	--	170J	--	--	--	--	--	--
<u>Analyte Detected</u> (values in mg/kg)										
aluminum	2,040	2,690	2,590	5,480	12,000	6,590	8,190	8,000	7,830	10,200
antimony	8.38	8.68	6.58	8.68	--	5.88	9.68	58	7.68	--
arsenic	5MJ	2.38MJ	2.9MJ	4.2MJ	5.5MJ	2.8MJ	8.8MJ	3.5MJ	4.2MJ	3.9MJ
barium	9.48	13.78	14.18	28.78	68.38	--	49.4	57.9	328	82.6
beryllium	--	--	--	0.258	0.68	0.448	0.578	0.438	0.478	0.438
calcium	90,000	68,600	59,600	94,800	97,200	101,000	66,500	47,300	90,400	6,270
chromium	4.5	5.2	5.3	9.1	18.9	11.4	12.1	11.2	12.6	13.4
cobalt	2.68	3.18	38	5.18	8.78	4.58	7.68	5.78	6.28	7.18
copper	6	14	11	16	19.2	12.9	20.4	10.5	16	9
iron	7,890	8,780	6,450	11,500	18,100	10,900	18,700	12,000	12,800	12,900

Table 4-1 (Cont.)

Sample Collection Information and Parameters	Sample Number									
	S1	S2	S3	S4	S5	S6	S7	S8	S9	S10
lead	5.2NAJ	3.5NAJ	3.1NAJ	7.6NAJ	7.6NAJ	4.5NAJ	5.4NAJ	4.2NAJ	7.4NAJ	9.2NAJ
magnesium	46,000	34,800	31,500	52,600	33,500	55,800	36,200	24,800	46,400	4,540
manganese	215	237	216	403	483	246	523	486	322	489
mercury	--	--	--	0.1	--	--	--	--	--	--
nickel	4.7B	6.6B	5.5B	12	21.1	8.7B	15.7	13.2	15.1	10
potassium	571B	597B	628B	1,580	3,540	1,820	1,380	1,020B	2,470	975B
sodium	215B	273B	268B	367B	583B	349B	356B	271B	418B	221B
thallium	--	--	--	--	0.46B	--	--	--	0.43BWJ	0.3BWJ
vanadium	13.2	9.4B	8.6B	14.1	25	15.8	21.9	22.5	19.7	23.3
zinc	10.3	17.6	17.2	31.2	40.3	23.5	45.2	36.4	32.1	39.1
cyanide	R	R	R	R	R	R	R	R	R	R

-- Not detected.

Table 4-1 (Cont.)

COMPOUND QUALIFIER	DEFINITION	INTERPRETATION
J	Indicates an estimated value.	Compound value may be semiquantitative.
ANALYTE QUALIFIERS	DEFINITION	INTERPRETATION
N	Spike recoveries outside QC protocols, which indicates a possible matrix problem. Data may be biased high or low. See spike results and laboratory narrative.	Value may be quantitative or semiquantitative.
A	Duplicate value outside QC protocols which indicates a possible matrix problem.	Value may be quantitative or semiquantitative.
B	Value is real, but is above instrument DL and below CRDL.	Value may be quantitative or semiquantitative.
J	Value is above CRDL and is an estimated value because of a QC protocol.	Value may be semiquantitative.
W	Post-digestion spike for furnace AA analysis is out of control limits (35-115%), while sample absorbance is <50% of spike absorbance.	Value may be semiquantitative.
R	Results are unusable due to a major violation of QC protocols.	Analyte value is not usable.

Table 4-2
RESULTS OF CHEMICAL ANALYSIS OF
FIIT-COLLECTED MONITORING WELL SAMPLES
FOR THE WOODLAND SITE SSI

Sample Collection Information and Parameters	MW1	MW2	Duplicate	MW3	Sample Number MW4	MW5	MW6	Blank
Date	8/21/90	8/21/90	8/21/90	8/21/90	8/21/90	8/21/90	8/21/90	8/21/90
Time	1115	1210	1210	1250	1405	1455	1535	1050
CRL Log Number	90FS24S67	90FS24S68	90FS24D68	90FS24S69	90FS24S70	90FS24S71	90FS24S72	90FS03R36
CLP Organic Traffic Report Number	ELY64	ELY65	ELY66	ELY67	ELY68	ELY69	ELY70	ELY71
Temperature (°C)	14	17	17	14	18	16	17	21
Specific Conductivity (µmhos/cm)	400	610	610	500	1,000	650	470	6
pH	7.29	7.53	7.53	7.32	6.70	6.75	7.65	4.75
Analyte Detected								
(values in µg/L)								
arsenic	17.4	--	--	--	--	--	--	--
barium	39.7	91.8	99.2	68.3	177	118	35.2	--
calcium	38,800	90,000	95,800	79,600	135,000	86,300	75,300	--
iron	--	120	103	590	5,880	501	703	--
magnesium	31,800	45,400	48,200	36,500	62,500	48,900	34,800	--
manganese	26.6	40.4	41.2	34.5	122	17.8	73.6	--
sodium	22,500	8,130	8,620	4,910	21,000	15,500	3,080	--
zinc	--	--	40.7	--	--	47.1	--	--
boron	124	--	--	--	177	--	--	--
strontium	752	811	864	311	478	1,410	176	--
lithium	--	10.5	11.6	--	14.3	11.6	--	--

-- Not detected.

5. DISCUSSION OF MIGRATION PATHWAYS

5.1 INTRODUCTION

This section presents discussions of data and information pertaining to potential migration pathways and targets of TCL compounds and TAL analytes that are possibly attributable to the Woodland site.

The five migration pathways of concern discussed are groundwater, surface water, air, fire and explosion, and direct contact.

5.2 GROUNDWATER

In accordance with the U.S. EPA-approved work plan, monitoring well samples were collected during the Woodland site SSI. TAL analytes were detected in downgradient monitoring well samples, including arsenic (17.4 µg/L) in MW1 and iron (5,880 µg/L) in MW4. The concentrations of iron detected in well MW4 were greater than those detected in upgradient well MW5. Because it is a common groundwater constituent, iron cannot be attributed to the site. However, arsenic was detected in on-site monitoring well MW1, and was not detected in the potentially upgradient monitoring well MW5. Arsenic was also detected in all soil/sediment samples at levels comparable to background, and may be attributable to the site.

In addition, strontium was detected in all monitoring well samples. However, because it was detected at its highest concentration in upgradient monitoring well MW5, it is not attributable to the site. Boron was detected in samples MW1 and MW4, at 124 µg/L and 177 µg/L, respectively, and may be attributable to the site. Lithium was detected in

samples MW2 (10.5 µg/L) and MW4 (14.3 µg/L) at levels comparable to background and may not be attributable to the site.

A potential exists for TCL compounds and TAL analytes to migrate to groundwater in the vicinity of the site, based on the following information.

- Phase I and Phase II of the site have received a wide variety of solid and liquid wastes.
- No liner is present in Phase I of the site, which was used as a gravel pit until the 1940s (Patrick Engineering 1983).

The potential for TCL compounds and TAL analytes to migrate to groundwater in the area of the site is also based in the following geological information. Unconsolidated deposits located within a 3-mile radius of the site consist of clays, silts, sands, and gravels (see Appendix E for area well logs). These deposits vary in depth from 0 to at least 160 feet. Well logs do not indicate that there is a continuous clay layer throughout the 3-mile radius of the site.

The bedrock that underlies the unconsolidated glacial deposits consists of Silurian-age dolomite. The Maquoketa shale underlies the Silurian dolomite and is believed to act as a confining unit (Landon 1967) and is not used as a source of drinking water (Woller, Sanderson, and Sargeant 1978). Because monitoring wells on-site are only set in the unconsolidated glacial deposits, FIT was not able to determine whether the Maquoketa shale is continuous beneath the site. Cambrian-Ordovician sandstone and limestone underlie the Maquoketa Formation. The aquifer of concern (AOC) is comprised of the unconsolidated glacial deposits and the Silurian dolomite. The depth to the AOC beneath the area of the site where landfilling activities have occurred is as shallow as 16.38 feet, based upon FIT water level measurements of on-site monitoring wells.

According to information gathered by FIT during the collection of monitoring well samples, groundwater located in the shallow aquifer beneath the site flows in a west-northwesterly direction. Based on the

topography of the site, groundwater in the deeper aquifer located in the Silurian dolomite is believed to flow west, toward the Fox River.

The population within a 3-mile radius of the site obtains its drinking water from both public and private wells. The city of South Elgin is served by four municipal wells, the closest of which is 1/4 mile west of the site (Zurick 1991). All four wells draw from the sand and gravel deposits, and the water is blended. Approximately 7,400 residents located within the corporate boundaries of South Elgin are served by these wells. Approximately 1,300 residents of the city of Valley View, located approximately 2 miles southwest of the site, are served by the South Elgin municipal wells which draw from the sand and gravel deposits (Lindstrom 1991).

The city of Elgin obtains its water from 11 municipal wells and surface water intakes, all located outside the 3-mile radius of the site (Eshelman 1988; Miller 1991).

Private wells within a 3-mile radius of the site are believed to draw from the AOC. Approximately 3,460 persons are served by private wells. This figure was obtained by counting houses located within a 3-mile radius of the site, but outside of the South Elgin and Elgin municipal water system boundaries, on United States Geological Survey (USGS) topographic maps (USGS 1964, 1964a, 1964b, 1964c). A total of 1,088 residences in Kane County, 87 in DuPage County, and 10 in Cook County were counted; these figures were then multiplied by their respective persons-per-household values (2.92 for Kane and DuPage counties and 2.75 for Cook County) (U.S. Bureau of the Census 1982).

A total population of approximately 12,160 residents within a 3-mile radius of the site is potentially affected by the migration of TCL compounds and TAL analytes to groundwater.

5.3 SURFACE WATER

In accordance with the U.S. EPA-approved work plan, no surface water samples were collected during the SSI of the Woodland site. However, TCL compounds and TAL analytes were detected in sediment samples collected on-site, including samples collected from the drainage ditch that partially circles the site. Analysis of sediment samples collected on-site revealed the following TCL compounds at levels above background:

toluene at 720J $\mu\text{g/kg}$ in sample S5 and pyrene at 400 $\mu\text{g/kg}$ in sample S4 (see Table 4-2 for the definition and interpretation of compound qualifiers). TAL analytes detected included magnesium at 55,800 mg/kg in sample S6, and mercury at 0.1 mg/kg in sample S4. These substances are attributable to the site, because they were detected at levels above background and may be associated with wastes deposited in the landfill. There is a potential for these substances to migrate to surface water, because the drainage ditch drains into a tributary of Brewster Creek, which eventually flows into the Fox River at a point 1/2 mile west of the site.

The Fox River and Brewster Creek are both used recreationally (Rockford Map Publishers 1983). No surface water intakes are located within 3 miles downstream of site. Therefore, there is no surface water target population.

5.4 AIR

A release of TCL compounds or TAL analytes to the air was not documented during the SSI of the Woodland site. During the reconnaissance inspection, FIT site-entry instruments (OVA 128, explosimeter, and colorimetric tubes for monitoring hydrogen cyanide) did not detect levels that deviated from background concentrations at the site. In accordance with the U.S. EPA-approved work plan, further air monitoring was not conducted by FIT.

A potential does not exist for TCL compounds and TAL analytes to migrate from the site via windblown particulates, because the site is well vegetated.

5.5 FIRE AND EXPLOSION

According to federal, state, and local file information reviewed by FIT and an interview with Bill Sohn, Inspections Captain for South Elgin, no documentation exists of an incident of fire or explosion at the site (Sohn 1991). According to FIT observations and site-entry equipment readings, no potential for fire or explosion existed at the site at the time of the SSI.

5.6 DIRECT CONTACT

According to federal, state, and local file information reviewed by FIT, observations made during the SSI, and the interview with the site representatives, no incidents of direct contact with TCL compounds or TAL analytes at the Woodland site have been documented. However, there is a potential for the public to come into contact with TCL compounds and TAL analytes detected on-site because the site is fenced, but it is not known whether security is maintained 24 hours per day.

The population potentially affected includes 3,874 persons living within a 1-mile radius of the site. This population was calculated by counting houses within a 1-mile radius of the site on USGS topographic maps (USGS 1964, 1964a, 1964b, 1964c) and multiplying that figure by persons-per-household values of 2.92 for DuPage and Kane counties and 2.75 for Cook County (U.S. Bureau of the Census 1982). A planimeter was used to calculate the portion of South Elgin that lies within a 1-mile radius of the site. Additionally, 15 workers are employed full-time on-site (McDonnell 1990).

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APPENDIX A

SITE 4-MILE RADIUS MAP

SDMS US EPA Region V

Imagery Insert Form

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APPENDIX B

U.S. EPA FORM 2070-13



POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 1 - SITE LOCATION AND INSPECTION INFORMATION

I. IDENTIFICATION

01 STATE 02 SITE NUMBER
IL D 097282750

II. SITE NAME AND LOCATION

01 SITE NAME (Legal, common, or descriptive name of site) Woodland Landfill		02 STREET, ROUTE NO., OR SPECIFIC LOCATION IDENTIFIER Route 25 and Gilbert St.				
03 CITY South Elgin		04 STATE IL	05 ZIP CODE 60177	06 COUNTY KANE	07 COUNTY CODE 089	08 CONG DIST 13
09 COORDINATES LATITUDE 88 16 25.0 LONGITUDE - 71 58 25.0		10 TYPE OF OWNERSHIP (Check one) <input type="checkbox"/> A. PRIVATE <input type="checkbox"/> B. FEDERAL <input type="checkbox"/> C. STATE <input type="checkbox"/> D. COUNTY <input type="checkbox"/> E. MUNICIPAL <input checked="" type="checkbox"/> F. OTHER Trust <input type="checkbox"/> G. UNKNOWN				

III. INSPECTION INFORMATION

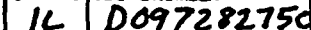
01 DATE OF INSPECTION 8.21.90 MONTH DAY YEAR	02 SITE STATUS <input checked="" type="checkbox"/> ACTIVE <input type="checkbox"/> INACTIVE	03 YEARS OF OPERATION 1976 Presently active BEGINNING YEAR ENDING YEAR	
04 AGENCY PERFORMING INSPECTION (Check all that apply) <input type="checkbox"/> A. EPA <input checked="" type="checkbox"/> B. EPA CONTRACTOR Ecology & Environment, Inc. (Name of firm) <input type="checkbox"/> C. MUNICIPAL <input type="checkbox"/> D. MUNICIPAL CONTRACTOR (Name of firm) <input type="checkbox"/> E. STATE <input type="checkbox"/> F. STATE CONTRACTOR (Name of firm) <input type="checkbox"/> G. OTHER (Specify)			

05 CHIEF INSPECTOR Daniel Sullivan	06 TITLE Chemical Engineer	07 ORGANIZATION Ecology & Environment, Inc.	08 TELEPHONE NO. (312) 663-9415
09 OTHER INSPECTORS Joseph Hershman	10 TITLE Engineering Physicist	11 ORGANIZATION	12 TELEPHONE NO. ()
Michelle Jaster	Biologist		()
Mike Phillips	Geologist		()
Deborah Barrett	Geologist		()
Raghu Nagam	Chemical Engineer		()
13 SITE REPRESENTATIVES INTERVIEWED John McDonnell	14 TITLE Environmental Engineer	15 ADDRESS Waste Management of North America, Inc. Midwest Region 138 & Calumet Expressway P.O. Box 1309 Calumet City, IL 60409	16 TELEPHONE NO. (312) 646-3099
Janet Hruby	Environmental Engineer		()
			()
			()
			()
			()
			()
			()

17 ACCESS GAINED BY (Check one) <input checked="" type="checkbox"/> PERMISSION <input type="checkbox"/> WARRANT	18 TIME OF INSPECTION 0900	19 WEATHER CONDITIONS CLOUDY ; DRIZZLING , ~70°F
---	-------------------------------	---

IV. INFORMATION AVAILABLE FROM

01 CONTACT Thomas Crause	02 OF (Agency/Organization) Illinois Environmental Protection Agency		03 TELEPHONE NO. (217) 782-9848
04 PERSON RESPONSIBLE FOR SITE INSPECTION FORM Deborah Barrett	05 AGENCY U.S. EPA Region II	06 ORGANIZATION FIT Field Investigative Team	07 TELEPHONE NO. (312) 663-9415
		08 DATE 8.7.91 MONTH DAY YEAR	

[illegible]

EPA FORM 2070-13(7-81)



Site Inspection Report

5



POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT

PART 3 - DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS

I. IDENTIFICATION

01 STATE

02 SITE NUMBER

1/L

D097282750

II. HAZARDOUS CONDITIONS AND INCIDENTS

01 ☒ A. GROUNDWATER CONTAMINATION

03 POPULATION POTENTIALLY AFFECTED: 12,160

02 ☐ OBSERVED (DATE: _____)

04 NARRATIVE DESCRIPTION

☒ POTENTIAL

☐ ALLEGED

See section 5.2 of SSIR narrative

01 ☒ B. SURFACE WATER CONTAMINATION

03 POPULATION POTENTIALLY AFFECTED: 0

02 ☐ OBSERVED (DATE: _____)

04 NARRATIVE DESCRIPTION

☒ POTENTIAL

☐ ALLEGED

See section 5.3 of SSIR narrative

01 ☐ C. CONTAMINATION OF AIR

03 POPULATION POTENTIALLY AFFECTED: _____

02 ☐ OBSERVED (DATE: _____)

04 NARRATIVE DESCRIPTION

☐ POTENTIAL

☐ ALLEGED

See section 5.4 of SSIR narrative

01 ☐ D. FIRE/EXPLOSIVE CONDITIONS

03 POPULATION POTENTIALLY AFFECTED: _____

02 ☐ OBSERVED (DATE: _____)

04 NARRATIVE DESCRIPTION

☐ POTENTIAL

☐ ALLEGED

See section 5.5 of SSIR narrative

01 ☒ E. DIRECT CONTACT

03 POPULATION POTENTIALLY AFFECTED: 3874

02 ☐ OBSERVED (DATE: _____)

04 NARRATIVE DESCRIPTION

☒ POTENTIAL

☐ ALLEGED

See section 5.6 of SSIR narrative

01 ☒ F. CONTAMINATION OF SOIL

03 AREA POTENTIALLY AFFECTED: 121
(acres)

02 ☒ OBSERVED (DATE: 8/21/90)

04 NARRATIVE DESCRIPTION

☐ POTENTIAL

☐ ALLEGED

See Table 4-1 of SSIR narrative, and 5.2 of SSIR narrative

01 ☒ G. DRINKING WATER CONTAMINATION

03 POPULATION POTENTIALLY AFFECTED: 12,160

02 ☐ OBSERVED (DATE: _____)

04 NARRATIVE DESCRIPTION

☒ POTENTIAL

☐ ALLEGED

See section 5.2 of SSIR Narrative.

01 ☒ H. WORKER EXPOSURE/INJURY

03 WORKERS POTENTIALLY AFFECTED: 15

02 ☐ OBSERVED (DATE: _____)

04 NARRATIVE DESCRIPTION

☒ POTENTIAL

☐ ALLEGED

See section 5 of SSIR Narrative

01 ☒ I. POPULATION EXPOSURE/INJURY

03 POPULATION POTENTIALLY AFFECTED: 12,160

02 ☐ OBSERVED (DATE: _____)

04 NARRATIVE DESCRIPTION

☒ POTENTIAL

☐ ALLEGED

See section 5 of SSIR Narrative



POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 3 - DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS

I. IDENTIFICATION

01 STATE 02 SITE NUMBER

IL D097282750

II. HAZARDOUS CONDITIONS AND INCIDENTS (Continued)

01 ☒ J. DAMAGE TO FLORA

02 ☐ OBSERVED (DATE: _____)

☒ POTENTIAL

☐ ALLEGED

04 NARRATIVE DESCRIPTION

Flora could become effected by the absorption of TCL compounds and
in the soil. TML analytes

01 ☒ K. DAMAGE TO FAUNA

02 ☐ OBSERVED (DATE: _____)

☒ POTENTIAL

☐ ALLEGED

04 NARRATIVE DESCRIPTION (Include name(s) of species)

Fauna could become exposed to and TML analytes through the
ingestion of affected Flora. TCL compounds

01 ☒ L. CONTAMINATION OF FOOD CHAIN

02 ☐ OBSERVED (DATE: _____)

☒ POTENTIAL

☐ ALLEGED

04 NARRATIVE DESCRIPTION

The food chain could be indirectly affected through the bioaccumulation
of TCL compounds and TML analytes

01 ☒ M. UNSTABLE CONTAINMENT OF WASTES

02 ☒ OBSERVED (DATE: 8/21/90)

☐ POTENTIAL

☐ ALLEGED

03 POPULATION POTENTIALLY AFFECTED: 10,160

04 NARRATIVE DESCRIPTION

See table 4-1 and section 5.2 of SSIR narrative

01 ☐ N. DAMAGE TO OFFSITE PROPERTY

02 ☐ OBSERVED (DATE: _____)

☐ POTENTIAL

☐ ALLEGED

04 NARRATIVE DESCRIPTION

None Known

01 ☐ O. CONTAMINATION OF SEWERS, STORM DRAINS, WWTPs

02 ☐ OBSERVED (DATE: _____)

☐ POTENTIAL

☐ ALLEGED

04 NARRATIVE DESCRIPTION

None Known

01 ☐ P. ILLEGAL/UNAUTHORIZED DUMPING

02 ☐ OBSERVED (DATE: _____)

☐ POTENTIAL

☐ ALLEGED

04 NARRATIVE DESCRIPTION

None Known

05 DESCRIPTION OF ANY OTHER KNOWN, POTENTIAL, OR ALLEGED HAZARDS

None Known.

III. TOTAL POPULATION POTENTIALLY AFFECTED: 12,160

IV. COMMENTS

None.

V. SOURCES OF INFORMATION (Cite specific references, e. g., state files, sample analysis reports)

E&E/FIT Region II files

E&E/FIT Site Inspection August, 1990.



POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION
PART 4 - PERMIT AND DESCRIPTIVE INFORMATION

I. IDENTIFICATION

01 STATE 02 SITE NUMBER
16 D 097282750

II. PERMIT INFORMATION

01 TYPE OF PERMIT ISSUED (Check all that apply)	02 PERMIT NUMBER	03 DATE ISSUED	04 EXPIRATION DATE	05 COMMENTS
<input type="checkbox"/> A. NPDES	See Section 2.3 of SSIR Narrative			
<input type="checkbox"/> B. UIC				
<input type="checkbox"/> C. AIR				
<input type="checkbox"/> D. RCRA				
<input type="checkbox"/> E. RCRA INTERIM STATUS				
<input type="checkbox"/> F. SPCC PLAN				
<input type="checkbox"/> G. STATE (Specify)				
<input type="checkbox"/> H. LOCAL (Specify)				
<input type="checkbox"/> I. OTHER (Specify)				
<input type="checkbox"/> J. NONE				

III. SITE DESCRIPTION

01 STORAGE/DISPOSAL (Check all that apply)	02 AMOUNT	03 UNIT OF MEASURE	04 TREATMENT (Check all that apply)	05 OTHER
<input type="checkbox"/> A. SURFACE IMPOUNDMENT			N/A	<input checked="" type="checkbox"/> A. BUILDINGS ON SITE TWO
<input type="checkbox"/> B. PILES			<input type="checkbox"/> A. INCINERATION	
<input type="checkbox"/> C. DRUMS, ABOVE GROUND			<input type="checkbox"/> B. UNDERGROUND INJECTION	
<input type="checkbox"/> D. TANK, ABOVE GROUND			<input type="checkbox"/> C. CHEMICAL/PHYSICAL	
<input type="checkbox"/> E. TANK, BELOW GROUND			<input type="checkbox"/> D. BIOLOGICAL	
<input checked="" type="checkbox"/> F. LANDFILL	See section 2.3 of SSIR		<input type="checkbox"/> E. WASTE OIL PROCESSING	
<input type="checkbox"/> G. LANDFARM			<input type="checkbox"/> F. SOLVENT RECOVERY	
<input type="checkbox"/> H. OPEN DUMP			<input type="checkbox"/> G. OTHER RECYCLING/RECOVERY	
<input type="checkbox"/> I. OTHER (Specify)			<input type="checkbox"/> H. OTHER (Specify)	06 AREA OF SITE 121 (Acres)

07 COMMENTS

None.

IV. CONTAINMENT

01 CONTAINMENT OF WASTES (Check one)

☐ A. ADEQUATE, SECURE B. MODERATE ☒ C. INADEQUATE, POOR ☐ D. INSECURE, UNSOUND, DANGEROUS

02 DESCRIPTION OF DRUMS, DIKING, LINERS, BARRIERS, ETC.

See section 2.3 of SSIR Narrative.

V. ACCESSIBILITY

01 WASTE EASILY ACCESSIBLE: ☒ YES ☐ NO TCL compounds and TAL analytes were
02 COMMENTS detected in on-site soil/sediment samples. See Table 4-1,
and section 5-2 of SSIR. No known or future security.

VI. SOURCES OF INFORMATION (See specific references, e.g. State files, sample analysis, reports)

E&E/FIT Region I files

E&E/FIT Site Inspection August, 1990



POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 5 - WATER, DEMOGRAPHIC, AND ENVIRONMENTAL DATA

L IDENTIFICATION

01 STATE 02 SITE NUMBER

16 097282750

II. DRINKING WATER SUPPLY

01 TYPE OF DRINKING SUPPLY
(Check as applicable)

SURFACE WELL
COMMUNITY A. ☐ B. ☒
NON-COMMUNITY C. ☐ D. ☒

02 STATUS

ENDANGERED AFFECTED MONITORED
A. ☐ B. ☐ C. ☒
unknown D. ☐ E. ☐ F. ☐

03 DISTANCE TO SITE

A. 1/4 (mi)
B. 100 ft (mi)

III. GROUNDWATER

01 GROUNDWATER USE IN VICINITY (Check one)

☒ A. ONLY SOURCE FOR DRINKING ☐ B. DRINKING
(Other sources available)
COMMERCIAL, INDUSTRIAL, IRRIGATION
(No other water sources available)
☐ C. COMMERCIAL, INDUSTRIAL, IRRIGATION
(Limited other sources available)
☐ D. NOT USED, UNUSEABLE

02 POPULATION SERVED BY GROUND WATER 12,160

03 DISTANCE TO NEAREST DRINKING WATER WELL 100 feet (mi)

04 DEPTH TO GROUNDWATER

16.38 (ft)

05 DIRECTION OF GROUNDWATER FLOW

West-North West

06 DEPTH TO AQUIFER
OF CONCERN

16.38 (ft)

07 POTENTIAL YIELD
OF AQUIFER

UNKNOWN (gpd)

08 SOLE SOURCE AQUIFER

☐ YES ☒ NO

09 DESCRIPTION OF WELLS (including usage, depth, and location relative to population and buildings)

See section 5.2 of SSIR narrative, and appendix E -

10 RECHARGE AREA

☒ YES
☐ NO

COMMENTS Infiltration of precipitation

11 DISCHARGE AREA

☒ YES
☐ NO

COMMENTS Brewster Creek
Wetland Area
Fox River

IV. SURFACE WATER

01 SURFACE WATER USE (Check one)

☒ A. RESERVOIR, RECREATION
DRINKING WATER SOURCE ☐ B. IRRIGATION, ECONOMICALLY
IMPORTANT RESOURCES ☐ C. COMMERCIAL, INDUSTRIAL ☐ D. NOT CURRENTLY USED

02 AFFECTED ~~POTENTIALLY AFFECTED~~ BODIES OF WATER

NAME:

Brewster Creek
Fox River

AFFECTED

☐
☐
☐

DISTANCE TO SITE

1/4 (mi)
1/4 (mi)
(mi)

V. DEMOGRAPHIC AND PROPERTY INFORMATION

01 TOTAL POPULATION WITHIN

ONE (1) MILE OF SITE
A. 3874
NO. OF PERSONS

TWO (2) MILES OF SITE
B. ~9298
NO. OF PERSONS

THREE (3) MILES OF SITE
C. 10860
NO. OF PERSONS

02 DISTANCE TO NEAREST POPULATION

1.00 feet (mi)

03 NUMBER OF BUILDINGS WITHIN TWO (2) MILES OF SITE

2,834

04 DISTANCE TO NEAREST OFF-SITE BUILDING

1.00 feet (mi)

05 POPULATION WITHIN VICINITY OF SITE (Provide narrative description of nature of population within vicinity of site, e.g., rural, village, densely populated urban area)

See section 2.2 of SSIR Narrative



POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 5 - WATER, DEMOGRAPHIC, AND ENVIRONMENTAL DATA

I. IDENTIFICATION

01 STATE 02 SITE NUMBER

IL D097282750

VI. ENVIRONMENTAL INFORMATION

01 PERMEABILITY OF UNSATURATED ZONE (Check one)

☐ A. $10^{-6} - 10^{-8}$ cm/sec ☒ B. $10^{-4} - 10^{-6}$ cm/sec ☐ C. $10^{-4} - 10^{-3}$ cm/sec ☐ D. GREATER THAN 10^{-3} cm/sec

02 PERMEABILITY OF BEDROCK (Check one)

☐ A. IMPERMEABLE (Less than 10^{-8} cm/sec) ☐ B. RELATIVELY IMPERMEABLE ($10^{-4} - 10^{-6}$ cm/sec) ☒ C. RELATIVELY PERMEABLE ($10^{-2} - 10^{-4}$ cm/sec) ☐ D. VERY PERMEABLE (Greater than 10^{-2} cm/sec)

03 DEPTH TO BEDROCK

54 (ft)

04 DEPTH OF CONTAMINATED SOIL ZONE

unknown (ft)

05 SOIL pH

unknown

06 NET PRECIPITATION

33.57 (in)

07 ONE YEAR 24 HOUR RAINFALL

2.4 (in)

08 SLOPE
SITE SLOPE

1.5 %

DIRECTION OF SITE SLOPE

West

TERRAIN AVERAGE SLOPE

~1.5 %

09 FLOOD POTENTIAL

SITE IS IN 500 YEAR FLOODPLAIN

10 N/A

☐ SITE IS ON BARRIER ISLAND, COASTAL HIGH HAZARD AREA, RIVERINE FLOODWAY

11 DISTANCE TO WETLANDS (5 acre minimum)

ESTUARINE

OTHER

A. N/A (mi)

B. on-site (mi)

12 DISTANCE TO CRITICAL HABITAT (for endangered species)

> 1 (mi)

ENDANGERED SPECIES: N/A

13 LAND USE IN VICINITY

DISTANCE TO:

COMMERCIAL INDUSTRIAL

RESIDENTIAL AREAS NATIONAL/STATE PARKS,
FORESTS, OR WILDLIFE RESERVES

AGRICULTURAL LANDS
PRIME AG LAND AG LAND

A. ~2 (mi)

B. < 1 (mi)

C. not known (mi) D. < 2 (mi)

14 DESCRIPTION OF SITE IN RELATION TO SURROUNDING TOPOGRAPHY

See 4-mile radius map in SSIR.

See Narrative, SSIR, section 3.3

VII. SOURCES OF INFORMATION (Cite specific references, e.g., State files, sample analysis, reports)

E & E/FIT Region V files

E & E/FIT site inspection August, 1990



POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 6 - SAMPLE AND FIELD INFORMATION

I. IDENTIFICATION

01 STATE 02 SITE NUMBER
IL D097282750

II. SAMPLES TAKEN

SAMPLE TYPE	01 NUMBER OF SAMPLES TAKEN	02 SAMPLES SENT TO	03 ESTIMATED DATE RESULTS AVAILABLE
GROUNDWATER	Eight	Inorganics Central Regional Laboratory of Chicago Organics - CLAYTON, NOVI, MI	Available
SURFACE WATER			
WASTE			
AIR			
RUNOFF			
SPILL			
SOIL	Ten	ORGANICS: CLAYTON, NOVI, MI INORGANICS: YORK LABORATORIES, MONROE, CT	Available
VEGETATION			
OTHER			

III. FIELD MEASUREMENTS TAKEN

01 TYPE	02 COMMENTS
OVA	NO DEVIATIONS FROM BACKGROUND READINGS
O ₂ Meter	
Explosimeter	
Radiation Monitor	
Colorimetric Tubes for the detection of HCN	

IV. PHOTOGRAPHS AND MAPS

01 TYPE <input checked="" type="checkbox"/> GROUND <input type="checkbox"/> AERIAL	02 IN CUSTODY OF Ecology and Environment, Inc. <small>(Name of organization or individual)</small>
03 MAPS <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	04 LOCATION OF MAPS Ecology and Environment, Inc.

V. OTHER FIELD DATA COLLECTED (Provide narrative description)

For Temperature, pH, and conductivity see Table 4-2 of SSIR Narrative.
See Table 3-1 for groundwater depths

VI. SOURCES OF INFORMATION (Cite specific references, e.g., State files, sample analysis, reports)

E&E/FIT Region II files
E&E/FIT Site Inspection August, 1990.



POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 7 - OWNER INFORMATION

L IDENTIFICATION

01 STATE 02 SITE NUMBER

1L D097282750

II. CURRENT OWNER(S)				PARENT COMPANY (if applicable)			
01 NAME		02 D+B NUMBER		08 NAME		09 D+B NUMBER	
Trust #8-1735				Unknown			
03 STREET ADDRESS (P.O. Box, RFD #, etc.)		04 SIC CODE		10 STREET ADDRESS (P.O. Box, RFD #, etc.)		11 SIC CODE	
Oakbrook Bank							
05 CITY		06 STATE		12 CITY		13 STATE	
Oakbrook		1L					
01 NAME		02 D+B NUMBER		08 NAME		09 D+B NUMBER	
03 STREET ADDRESS (P.O. Box, RFD #, etc.)		04 SIC CODE		10 STREET ADDRESS (P.O. Box, RFD #, etc.)		11 SIC CODE	
05 CITY		06 STATE		12 CITY		13 STATE	
01 NAME		02 D+B NUMBER		08 NAME		09 D+B NUMBER	
03 STREET ADDRESS (P.O. Box, RFD #, etc.)		04 SIC CODE		10 STREET ADDRESS (P.O. Box, RFD #, etc.)		11 SIC CODE	
05 CITY		06 STATE		12 CITY		13 STATE	
01 NAME		02 D+B NUMBER		08 NAME		09 D+B NUMBER	
03 STREET ADDRESS (P.O. Box, RFD #, etc.)		04 SIC CODE		10 STREET ADDRESS (P.O. Box, RFD #, etc.)		11 SIC CODE	
05 CITY		06 STATE		12 CITY		13 STATE	
01 NAME		02 D+B NUMBER		08 NAME		09 D+B NUMBER	
03 STREET ADDRESS (P.O. Box, RFD #, etc.)		04 SIC CODE		10 STREET ADDRESS (P.O. Box, RFD #, etc.)		11 SIC CODE	
05 CITY		06 STATE		12 CITY		13 STATE	
III. PREVIOUS OWNER(S) (List most recent first)				IV. REALTY OWNER(S) (if applicable; list most recent first)			
01 NAME		02 D+B NUMBER		01 NAME		02 D+B NUMBER	
Unknown				Unknown			
03 STREET ADDRESS (P.O. Box, RFD #, etc.)		04 SIC CODE		03 STREET ADDRESS (P.O. Box, RFD #, etc.)		04 SIC CODE	
05 CITY		06 STATE		05 CITY		06 STATE	
01 NAME		02 D+B NUMBER		01 NAME		02 D+B NUMBER	
03 STREET ADDRESS (P.O. Box, RFD #, etc.)		04 SIC CODE		03 STREET ADDRESS (P.O. Box, RFD #, etc.)		04 SIC CODE	
05 CITY		06 STATE		05 CITY		06 STATE	
01 NAME		02 D+B NUMBER		01 NAME		02 D+B NUMBER	
03 STREET ADDRESS (P.O. Box, RFD #, etc.)		04 SIC CODE		03 STREET ADDRESS (P.O. Box, RFD #, etc.)		04 SIC CODE	
05 CITY		06 STATE		05 CITY		06 STATE	
V. SOURCES OF INFORMATION (Cite specific references, e.g., State files, sample analysis, reports)							
E&E/FIT Region I files							
E&E/FIT Site Inspection August, 1990							



POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 8 - OPERATOR INFORMATION

I. IDENTIFICATION

01 STATE 02 SITE NUMBER

IL D097282750

II. CURRENT OPERATOR (Provide if different from owner)

OPERATOR'S PARENT COMPANY (if applicable)

01 NAME Waste Management of America North Inc.	02 D+B NUMBER	10 NAME NONE	11 D+B NUMBER
03 STREET ADDRESS (P.O. Box, RFD #, etc.) 138th & Calumet Expressway P.O. Box 1309	04 SIC CODE	12 STREET ADDRESS (P.O. Box, RFD #, etc.)	13 SIC CODE
05 CITY Calumet City	06 STATE IL	07 ZIP CODE 60409	14 CITY
15 STATE	16 ZIP CODE		
08 YEARS OF OPERATION	09 NAME OF OWNER		

III. PREVIOUS OPERATOR(S) (List most recent first; provide only if different from owner)

PREVIOUS OPERATORS' PARENT COMPANIES (if applicable)

01 NAME UNKNOWN	02 D+B NUMBER	10 NAME UNKNOWN	11 D+B NUMBER
03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE	12 STREET ADDRESS (P.O. Box, RFD #, etc.)	13 SIC CODE
05 CITY	06 STATE	07 ZIP CODE	14 CITY
15 STATE	16 ZIP CODE		
08 YEARS OF OPERATION	09 NAME OF OWNER DURING THIS PERIOD		

01 NAME	02 D+B NUMBER	10 NAME	11 D+B NUMBER
03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE	12 STREET ADDRESS (P.O. Box, RFD #, etc.)	13 SIC CODE
05 CITY	06 STATE	07 ZIP CODE	14 CITY
15 STATE	16 ZIP CODE		
08 YEARS OF OPERATION	09 NAME OF OWNER DURING THIS PERIOD		

01 NAME	02 D+B NUMBER	10 NAME	11 D+B NUMBER
03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE	12 STREET ADDRESS (P.O. Box, RFD #, etc.)	13 SIC CODE
05 CITY	06 STATE	07 ZIP CODE	14 CITY
15 STATE	16 ZIP CODE		
08 YEARS OF OPERATION	09 NAME OF OWNER DURING THIS PERIOD		

IV. SOURCES OF INFORMATION (See specific references, e.g., state files, sample analysis, reports)

E&E/FIT Region I files

E&E/FIT Site Inspection August, 1990



POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 9 - GENERATOR/TRANSPORTER INFORMATION

I. IDENTIFICATION

01 STATE 02 SITE NUMBER
1L D097282750

II. ON-SITE GENERATOR

01 NAME NONE	02 D+B NUMBER		
03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE		
05 CITY	06 STATE	07 ZIP CODE	

III. OFF-SITE GENERATOR(S)

01 NAME UNKNOWN	02 D+B NUMBER	01 NAME	02 D+B NUMBER		
03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE	03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE		
05 CITY	06 STATE	07 ZIP CODE	05 CITY	06 STATE	07 ZIP CODE
01 NAME	02 D+B NUMBER	01 NAME	02 D+B NUMBER		
03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE	03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE		
05 CITY	06 STATE	07 ZIP CODE	05 CITY	06 STATE	07 ZIP CODE

IV. TRANSPORTER(S)

01 NAME UNKNOWN	02 D+B NUMBER	01 NAME	02 D+B NUMBER		
03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE	03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE		
05 CITY	06 STATE	07 ZIP CODE	05 CITY	06 STATE	07 ZIP CODE
01 NAME	02 D+B NUMBER	01 NAME	02 D+B NUMBER		
03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE	03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE		
05 CITY	06 STATE	07 ZIP CODE	05 CITY	06 STATE	07 ZIP CODE

V. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

E&E/FIT Region V files

E&E/FIT site inspection August, 1990.

APPENDIX C

FIT SITE PHOTOGRAPHS

FIELD PHOTOGRAPHY LOG SHEET

SITE NAME: Woodland LandfillPAGE 1 OF 15U.S. EPA ID: ILD091282750 TDD: F05-8909-044PAN: FTL0193SADATE: 8/21/90TIME: 12:22DIRECTION OF
PHOTOGRAPH:NWWEATHER
CONDITIONS:Cloudy, drizzling70° F

PHOTOGRAPHED BY:

Daniel SullivanSAMPLE ID
(if applicable):S1DESCRIPTION: Perspective view of Sediment Sample S1 collected
AT NORTHEAST EDGE OF SITE.

SITE NAME: Woodland LandfillPAGE 2 OF 15U.S. EPA ID: ILD097282750 TDD: F05-8909-044PAN: FIL0193SADATE: 8/21/90TIME: 12:33DIRECTION OF
PHOTOGRAPH:
NEWEATHER
CONDITIONS:
Cloudy, drizzling
70°FPHOTOGRAPHED BY:
Daniel SullivanSAMPLE ID
(if applicable):
S2DESCRIPTION: CLOSEUP OF SEDIMENT SAMPLE S2 COLLECTED AT
NORTHEAST edge of SITE.DATE: 8/21/90TIME: 12:34DIRECTION OF
PHOTOGRAPH:
SSEWEATHER
CONDITIONS:
cloudy, drizzling
70°FPHOTOGRAPHED BY:
Daniel SullivanSAMPLE ID
(if applicable):
S2DESCRIPTION: PERSPECTIVE VIEW OF SEDIMENT SAMPLE S2 COLLECTED FROM THE
NORTHEAST edge of THE SITE.

FIELD PHOTOGRAPHY LOG SHEET

SITE NAME: Woodland LandfillPAGE 3 OF 15U.S. EPA ID: ILD097282750 TDD: F05-8909-044PAN: FIL0193SADATE: 8/21/90TIME: 12:47DIRECTION OF
PHOTOGRAPH:
ESEWEATHER
CONDITIONS:
Cloudy, drizzling
70°FPHOTOGRAPHED BY:
Daniel SullivanSAMPLE ID
(if applicable):
S3DESCRIPTION: CLOSEUP of Sediment sample S3 collected FROM the
EASTERN EDGE OF the SITE.DATE: 8/21/90TIME: 12:48DIRECTION OF
PHOTOGRAPH:
NNWWEATHER
CONDITIONS:
cloudy, drizzling
70°FPHOTOGRAPHED BY:
Daniel SullivanSAMPLE ID
(if applicable):
S3DESCRIPTION: Perspective view of Sediment sample S3
collected FROM the EASTERN edge of the site, which
is PROMINENTLY eroded.

FIELD PHOTOGRAPHY LOG SHEET

SITE NAME: Woodland LandfillPAGE 4 OF 15U.S. EPA ID: FLD097282750 TDD: F05-8909-044PAN: FILO1935ADATE: 8/21/90TIME: 13:03DIRECTION OF
PHOTOGRAPH:
NEWEATHER
CONDITIONS:
cloudy, drizzling
70°FPHOTOGRAPHED BY:
Daniel SullivanSAMPLE ID
(if applicable):
S4DESCRIPTION: Closeup of the location where Sediment sample S4 was collected.DATE: 8/21/90TIME: 13:03DIRECTION OF
PHOTOGRAPH:
NEWEATHER
CONDITIONS:
cloudy, drizzling
70°FPHOTOGRAPHED BY:
Daniel SullivanSAMPLE ID
(if applicable):
S4DESCRIPTION: Perspective view of Sediment sample S4 collected from the southeastern area of the site. The entire east side of the site suffered from erosion.

SITE NAME: Woodland LandfillPAGE 5 OF 15U.S. EPA ID: ILD097282750 TDD: F05-8909-044PAN: FIL0193SADATE: 8/21/90TIME: 14:25DIRECTION OF
PHOTOGRAPH:S

WEATHER

CONDITIONS:

Cloudy, drizzling
70°F

PHOTOGRAPHED BY:

Daniel Sullivan

SAMPLE ID

(if applicable):

S5DESCRIPTION: Closeup view of location at which Sediment
Sample S5 was collected.DATE: 8/21/90TIME: 14:25DIRECTION OF
PHOTOGRAPH:S

WEATHER

CONDITIONS:

cloudy, drizzling
70°F

PHOTOGRAPHED BY:

Daniel Sullivan

SAMPLE ID

(if applicable):

S5DESCRIPTION: Perspective view of sediment Sample S5 collected
from the western side of the site. The west side of the site has a
tributary to Brewster so it is an overland surface migration pathway.

SITE NAME: Woodland LandfillPAGE 6 OF 15U.S. EPA ID: ILD097282750 TDD: F05-8909-044PAN: FIL0193SADATE: 8/21/90TIME: 14:40DIRECTION OF
PHOTOGRAPH:S

WEATHER

CONDITIONS:

Cloudy, drizzling70°F

PHOTOGRAPHED BY:

Daniel Sullivan

SAMPLE ID

(if applicable):

S6DESCRIPTION: Closeup view of location at which Sediment sample S6 was collected.DATE: 8/21/90TIME: 14:40DIRECTION OF
PHOTOGRAPH:N

WEATHER

CONDITIONS:

Cloudy, drizzling70°F

PHOTOGRAPHED BY:

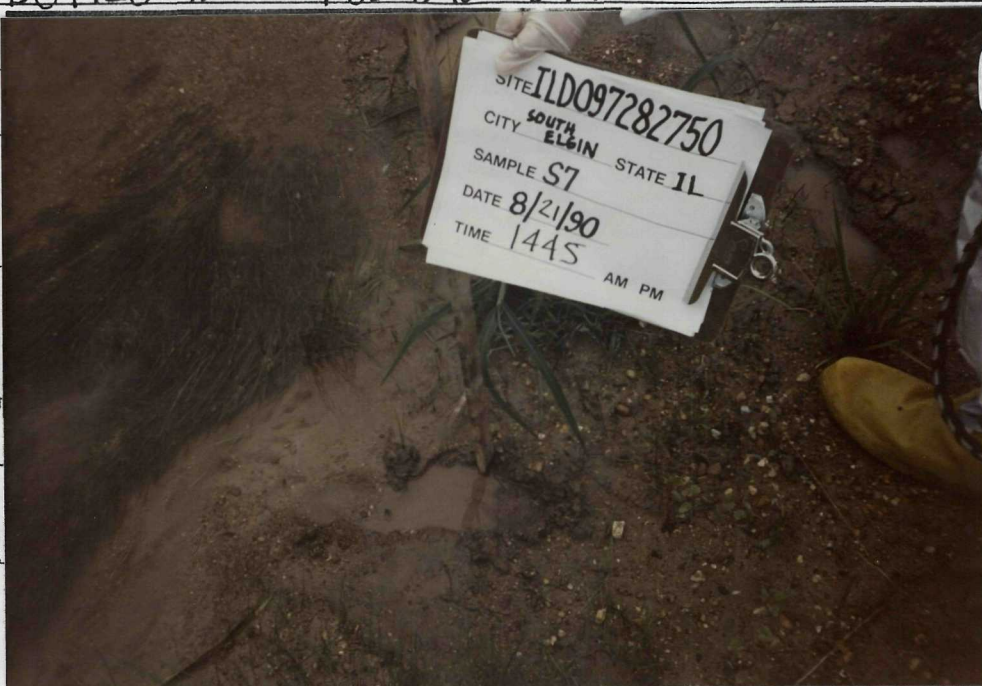
Daniel Sullivan

SAMPLE ID

(if applicable):

S6DESCRIPTION: Perspective view of Sediment sample S6 collected from the western side of the site.

FIELD PHOTOGRAPHY LOG SHEET

SITE NAME: Woodland LandfillPAGE 7 OF 15U.S. EPA ID: ILD097282750 TDD: F05-8909-044PAN: FIL0193SADATE: 8/21/90TIME: 14:50DIRECTION OF
PHOTOGRAPH:
SWEATHER
CONDITIONS:Cloudy, drizzling
70°FPHOTOGRAPHED BY:
Daniel SullivanSAMPLE ID
(if applicable):
S7DESCRIPTION: Closeup of location at which sediment sample S7
was collected.DATE: 8/21/90TIME: 14:50DIRECTION OF
PHOTOGRAPH:
SWEATHER
CONDITIONS:Cloudy, drizzling
70°FPHOTOGRAPHED BY:
Daniel SullivanSAMPLE ID
(if applicable):
S7DESCRIPTION: Perspective view of sediment sample S7 collected
from the northwestern area of the site. (The tributary to Brewster
is shown.)

SITE NAME: Woodland LandfillPAGE 8 OF 15U.S. EPA ID: ILD097282750 TDD: F05-8909-044PAN: FIL0193SADATE: 8/21/90TIME: 15:35DIRECTION OF
PHOTOGRAPH:
NWEATHER
CONDITIONS:Cloudy, drizzling
70° F

PHOTOGRAPHED BY:

Daniel SullivanSAMPLE ID
(if applicable):S8DESCRIPTION: Closeup of location at which sediment sample S8
was collected.DATE: 8/21/90TIME: 15:35DIRECTION OF
PHOTOGRAPH:
NWWEATHER
CONDITIONS:Cloudy, drizzling
70° F

PHOTOGRAPHED BY:

Daniel SullivanSAMPLE ID
(if applicable):S8DESCRIPTION: Perspective view of sediment sample S8 collected
from the southeastern area of the site. The east side of the
site is prominently eroded.

SITE NAME: Woodland LandfillPAGE 9 OF 15U.S. EPA ID: ILD097282750 TDD: F05-8909-044PAN: FIL0193SADATE: 8/21/90TIME: 16:05DIRECTION OF
PHOTOGRAPH:NE

WEATHER

CONDITIONS:

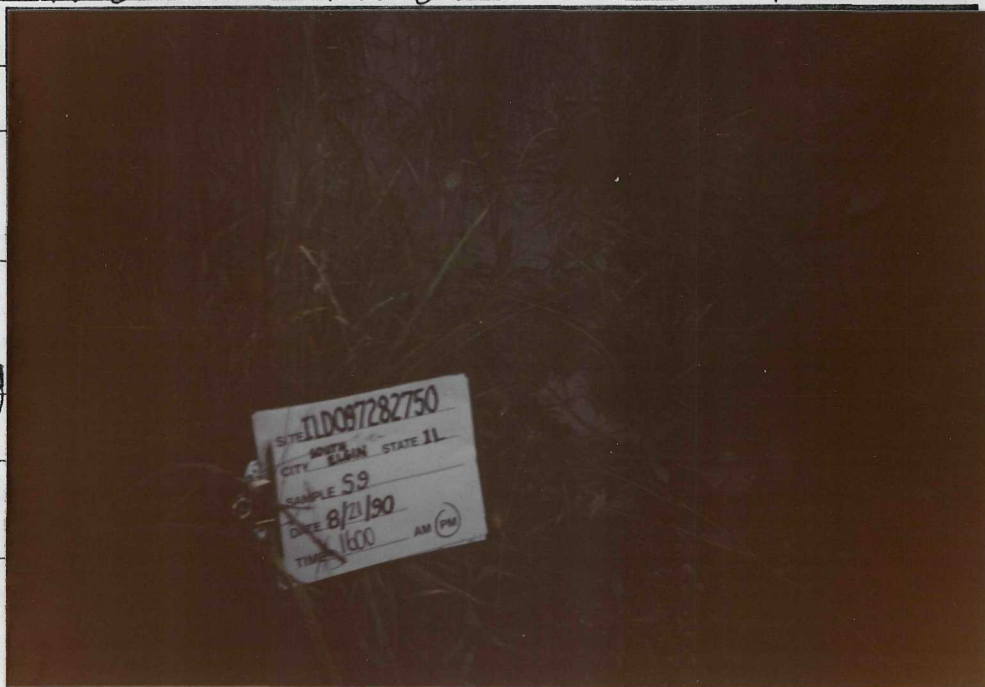
Cloudy, drizzling70°F

PHOTOGRAPHED BY:

Daniel Sullivan

SAMPLE ID

(if applicable):

S9DESCRIPTION: Closeup of location at which sediment sample S9
was collected.DATE: 8/21/90TIME: 16:05DIRECTION OF
PHOTOGRAPH:NE

WEATHER

CONDITIONS:

Cloudy, drizzling70°F

PHOTOGRAPHED BY:

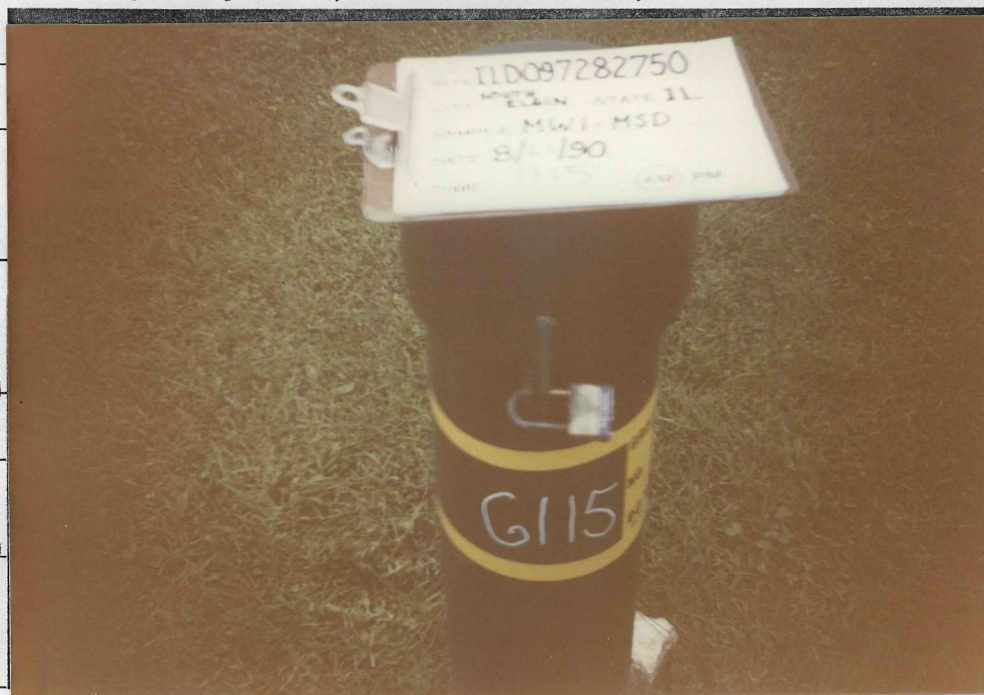
Daniel Sullivan

SAMPLE ID

(if applicable):

S9DESCRIPTION: Perspective view of sediment sample S9 collected
FROM THE SOUTHERN side of the site.

FIELD PHOTOGRAPHY LOG SHEET

SITE NAME: Woodland LandfillPAGE 10 OF 15U.S. EPA ID: ILD097282750 TDD: F05-8909-044PAN: FIL0193SADATE: 8/21/90TIME: 1610DIRECTION OF
PHOTOGRAPH:
NNWWEATHER
CONDITIONS:
cloudy, drizzling
70°FPHOTOGRAPHED BY:
Daniel SullivanSAMPLE ID
(if applicable):
MW1-MSDDESCRIPTION: Closeup of Monitoring well MW1.DATE: 8/21/90TIME: 1610DIRECTION OF
PHOTOGRAPH:
NNEWEATHER
CONDITIONS:
cloudy, drizzling,
70°FPHOTOGRAPHED BY:
Daniel SullivanSAMPLE ID
(if applicable):
MW1-MSDDESCRIPTION: Perspective view of MW1 located at the
southwest portion of the site.

FIELD PHOTOGRAPHY LOG SHEET

SITE NAME: Woodland LandfillPAGE 11 OF 15U.S. EPA ID: ILD097282750 TDD: F05-8909-044PAN: FILO1935ADATE: 8/21/90TIME: 1633DIRECTION OF
PHOTOGRAPH:WestWEATHER
CONDITIONS:cloudy, drizzling
70°F

PHOTOGRAPHED BY:

Daniel SullivanSAMPLE ID
(if applicable):MW-6DESCRIPTION: Close up view of MW-6

SITE NAME: Woodland LandPAGE 12 OF 15U.S. EPA ID: ILD097282750 TDD: F05-8909-044PAN: FIL01935ADATE: 8/21/90TIME: 1620DIRECTION OF
PHOTOGRAPH:NWEATHER
CONDITIONS:Cloudy, drizzling70° F

PHOTOGRAPHED BY:

Daniel SullivanSAMPLE ID
(if applicable):MW2-DUP

DESCRIPTION:

Closeup of Monitoring well MW2.DATE: 8/21/90TIME: 1620DIRECTION OF
PHOTOGRAPH:WWEATHER
CONDITIONS:Cloudy, drizzling70° F

PHOTOGRAPHED BY:

Daniel SullivanSAMPLE ID
(if applicable):MW2-DUP

DESCRIPTION:

Perspective view of Monitoring well MW2 locatedApproximately 750 ft. Southeast of MW1.

FIELD PHOTOGRAPHY LOG SHEET

SITE NAME: Woodland LandfillPAGE 13 OF 15U.S. EPA ID: ILDD097282750 TDD: F05-8909-044PAN: FIL01935ADATE: 8/21/90TIME: 1628DIRECTION OF
PHOTOGRAPH:
E

WEATHER

CONDITIONS:

cloudy, drizzling
70°F

PHOTOGRAPHED BY:

Daniel SullivanSAMPLE ID
(if applicable):
MW3DESCRIPTION: Closeup of Monitoring well MW3.DATE: 8/21/90TIME: 1628DIRECTION OF
PHOTOGRAPH:
E

WEATHER

CONDITIONS:

cloudy, drizzling
70°F

PHOTOGRAPHED BY:

Daniel SullivanSAMPLE ID
(if applicable):
MW3DESCRIPTION: Perspective view of Monitoring well MW3 located
in the central western portion of the site.

FIELD PHOTOGRAPHY LOG SHEET

SITE NAME: Woodland LandfillPAGE 14 OF 15U.S. EPA ID: FLD097282750 TDD: F05-8909-044PAN: FIL0193SADATE: 8/21/90TIME: 1420DIRECTION OF
PHOTOGRAPH:N

WEATHER

CONDITIONS:

cloudy, drizzling
70°F

PHOTOGRAPHED BY:

Daniel Sullivan

SAMPLE ID

(if applicable):

MW4DESCRIPTION: Perspective view of Monitoring well MW4.DATE: 8/21/90TIME: 1420DIRECTION OF
PHOTOGRAPH:N

WEATHER

CONDITIONS:

Cloudy, drizzling
70°F

PHOTOGRAPHED BY:

Daniel Sullivan

SAMPLE ID

(if applicable):

MW4DESCRIPTION: Perspective view of Monitoring well MW4 located
in the southern central portion of the site.

FIELD PHOTOGRAPHY LOG SHEET

SITE NAME: Woodland LandfillPAGE 15 OF 15U.S. EPA ID: ILD097282750 TDD: F05-8909-044PAN: FIL0193SADATE: 8/21/90TIME: 15:45DIRECTION OF
PHOTOGRAPH:N

WEATHER

CONDITIONS:

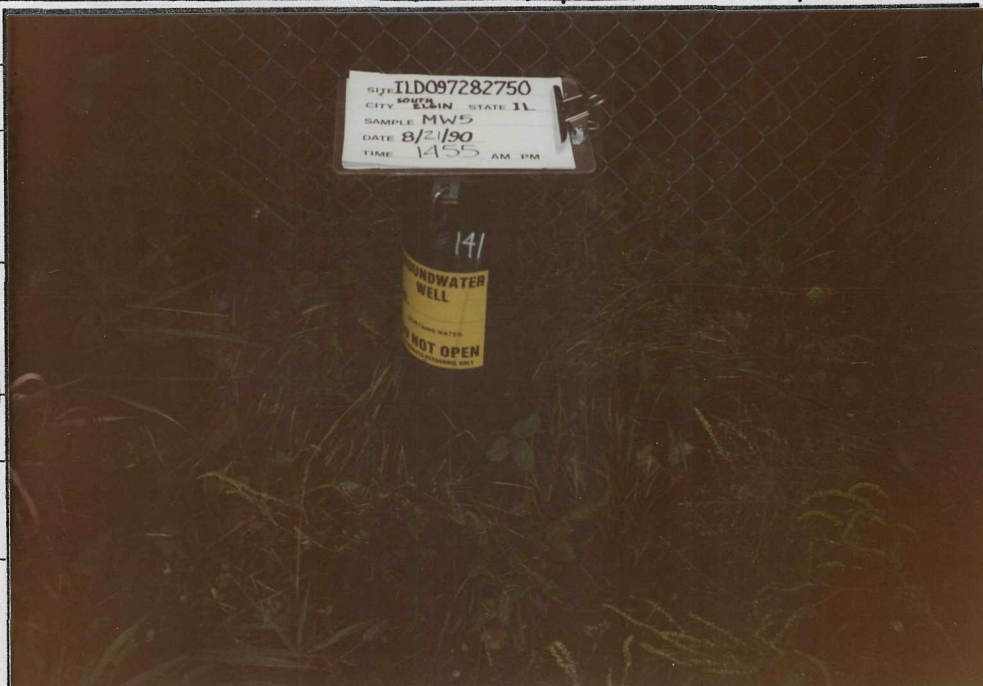
cloudy, drizzling70° F

PHOTOGRAPHED BY:

Daniel Sullivan

SAMPLE ID

(if applicable):

MW5

DESCRIPTION:

Closeup of Monitoring well MW5, the potential
upgradient sample located in the eastern central portion of the site.DATE: 8/21/90TIME: 15:45DIRECTION OF
PHOTOGRAPH:W

WEATHER

CONDITIONS:

cloudy, drizzling70° F

PHOTOGRAPHED BY:

Daniel Sullivan

SAMPLE ID

(if applicable):

MW5

DESCRIPTION:

Perspective view of Monitoring well MW5 located
at the eastern central area of the site.

APPENDIX D

U.S. EPA TARGET COMPOUND LIST AND
TARGET ANALYTE LIST
QUANTITATION/DETECTION LIMITS

ADDENDUM A

**ROUTINE ANALYTICAL SERVICES
CONTRACT REQUIRED DETECTION AND QUANTITATION LIMITS**

Contract Laboratory Program
Target Compound List
Quantitation Limits

COMPOUND	CAS #	WATER	SOIL SEDIMENT SLUDGE
Chloromethane	74-87-3	10 ug/L	10 ug/Kg
Bromomethane	74-83-9	10	10
Vinyl chloride	75-01-4	10	10
Chloroethane	75-00-3	10	10
Methylene chloride	75-09-2	5	5
Acetone	67-64-1	10	5
Carbon disulfide	75-15-0	5	5
1,1-dichloroethene	75-35-4	5	5
1,1-dichloroethane	75-34-3	5	5
1,2-dichloroethene (total)	540-59-0	5	5
Chloroform	67-66-3	5	5
1,2-dichloroethane	107-06-2	5	5
2-butanone (MEK)	78-93-3	10	10
1,1,1-trichloroethane	71-55-6	5	5
Carbon tetrachloride	56-23-5	5	5
Vinyl acetate	108-05-4	10	10
Bromodichloromethane	75-27-4	5	5
1,2-dichloropropane	78-87-5	5	5
cis-1,3-dichloropropene	10061-01-5	5	5
Trichloroethene	79-01-6	5	5
Dibromochloromethane	124-48-1	5	5
1,1,2-trichloroethane	79-00-5	5	5
Benzene	71-43-2	5	5
Trans-1,3-dichloropropene	10061-02-6	5	5
Bromoform	75-25-2	5	5
4-Methyl-2-pentanone	108-10-1	10	10
2-Hexanone	591-78-6	10	10
Tetrachloroethene	127-18-4	5	5
Toluene	108-88-3	5	5
1,1,2,2-tetrachloroethane	79-34-5	5	5
Chlorobenzene	108-90-7	5	5
Ethyl benzene	100-41-4	5	5
Styrene	100-42-5	5	5
Xylenes (total)	1330-20-7	5	5

Table A
Contract Laboratory Program
Target Compound List
Semivolatiles Quantitation Limits

COMPOUND	CAS #	WATER	SOIL SEDIMENT SLUDGE
Phenol	108-95-2	10 ug/L	330 ug/Kg
bis(2-Chloroethyl) ether	111-44-4	10	330
2-Chlorophenol	95-57-8	10	330
1,3-Dichlorobenzene	541-73-1	10	330
1,4-Dichlorobenzene	106-46-7	10	330
Benzyl Alcohol	100-51-6	10	330
1,2-Dichlorobenzene	95-50-1	10	330
2-Methylphenol	95-48-7	10	330
bis(2-Chloroisopropyl) ether	108-60-1	10	330
4-Methylphenol	106-44-5	10	330
N-Nitroso-di-n-dipropylamine	621-64-7	10	330
Hexachloroethane	67-72-1	10	330
Nitrobenzene	98-95-3	10	330
Isophorone	78-59-1	10	330
2-Nitrophenol	88-75-5	10	330
2,4-Dimethylphenol	105-67-9	10	330
Benzoic Acid	65-85-0	50	1600
bis(2-Chloroethoxy) methane	111-91-1	10	330
2,4-Dichlorophenol	120-83-2	10	330
1,2,4-Trichlorobenzene	120-82-1	10	330
Naphthalene	91-20-3	10	330
4-Chloroaniline	106-47-8	10	330
Hexachlorobutadiene	87-68-3	10	300
4-Chloro-3-methylphenol	59-50-7	10	330
2-Methylnaphthalene	91-57-6	10	330
Hexachlorocyclopentadiene	77-47-4	10	330
2,4,6-Trichlorophenol	88-06-2	10	330
2,4,5-Trichlorophenol	95-95-4	50	1600
2-Chloronaphthalene	91-58-7	10	330
2-Nitroaniline	88-74-4	50	1600
Dimethylphthalate	131-11-3	10	330
Acenaphthylene	208-96-8	10	330
2,6-Dinitrotoluene	606-20-2	10	330
3-Nitroaniline	99-09-2	50	1600
Acenaphthene	83-32-9	10	330
2,4-Dinitrophenol	51-28-5	50	1600
4-Nitrophenol	100-02-7	50	1600
Dibenzofuran	132-64-9	10	330
2,4-Dinitrotoluene	121-14-2	10	330
Diethylphthalate	84-66-2	10	330
4-Chlorophenyl-phenyl ether	7005-72-3	10	330

Table A
Contract Laboratory Program
Target Compound List
Semivolatiles Quantitation Limits

COMPOUND	CAS #	WATER	SOIL SLUDGE SEDIMENT
Fluorene	86-73-7	10 ug/L	330 ug/Kg
4-Nitroaniline	100-01-6	50	1600
4,6-Dinitro-2-methylphenol	534-52-1	50	1600
N-nitrosodiphenylamine	86-30-6	10	330
4-Bromophenyl-phenylether	101-55-3	10	330
Hexachlorobenzene	118-74-1	10	330
Pentachlorophenol	87-86-5	50	1600
Phenanthrene	85-01-8	10	330
Anthracene	120-12-7	10	330
Di-n-butylphthalate	84-74-2	10	330
Fluoranthene	206-44-0	10	330
Pyrene	129-00-0	10	330
Butylbenzylphthalate	85-68-7	10	330
3,3'-Dichlorobenzidine	91-94-1	20	660
Benzo(a)anthracene	56-55-3	10	330
Chrysene	218-01-9	10	330
bis(2-Ethylhexyl)phthalate	117-81-7	10	330
Di-n-octylphthalate	117-84-0	10	330
Benzo(b)fluoranthene	205-99-2	10	330
Benzo(k)fluoranthene	207-08-9	10	330
Benzo(a)pyrene	50-32-8	10	330
Indeno(1,2,3-cd)pyrene	193-39-5	10	330
Dibenz(a,h)anthracene	53-70-3	10	330
Benzo(g,h,i)perylene	191-24-2	10	330

Table A
Contract Laboratory Program
Target Compound List
Pesticide and PCB Quantitation Limits

COMPOUND	CAS #	WATER	SOIL
			SEDIMENT SLUDGE
alpha-BHC	319-84-6	0.05 ug/L	8 ug/Kg
beta-BHC	319-85-7	0.05	8
delta-BHC	319-86-8	0.05	8
gamma-BHC (Lindane)	58-89-9	0.05	8
Heptachlor	76-44-8	0.05	8
Aldrin	309-00-2	0.05	8
Heptachlor epoxide	1024-57-3	0.05	8
Endosulfan I	959-98-8	0.05	8
Dieldrin	60-57-1	0.10	16
4,4'-DDE	72-55-9	0.10	16
Endrin	72-20-8	0.10	16
Endosulfan II	33213-65-9	0.10	16
4,4'-DDD	72-54-8	0.10	16
Endosulfan sulfate	1031-07-8	0.10	16
4,4'-DDT	50-29-3	0.10	16
Methoxychlor (Mariate)	72-43-5	0.5	80
Endrin ketone	53494-70-5	0.10	16
alpha-Chlordane	5103-71-9	0.5	80
gamma-chlordane	5103-74-2	0.5	80
Toxaphene	8001-35-2	1.0	160
AROCLOR-1016	12674-11-2	0.5	80
AROCLOR-1221	11104-28-2	0.5	80
AROCLOR-1232	11141-16-5	0.5	80
AROCLOR-1242	53469-21-9	0.5	80
AROCLOR-1248	12672-29-6	0.5	80
AROCLOR-1254	11097-69-1	1.0	160
AROCLOR-1260	11096-82-5	1.0	160

ADDENDUM B

**CENTRAL REGIONAL LABORATORY
DETECTION LIMITS**

TABLE B (Cont.)
CRL
INORGANIC DETECTION LIMITS

COMPOUND	PROCEDURE	DETECTION LIMITS	RANGE	UNITS
Aluminum	ICP	100	80 to 1,000,000	ug/L
Antimony	Furnace	2	2 to 30	ug/L
Arsenic	Furnace	2	2 to 30	ug/L
Barium	ICP	50	6 to 20,000	ug/L
Beryllium	ICP	5	1 to 20,000	ug/L
Boron	ICP	80	80 to 20,000	ug/L
Cadmium	ICP	10	10 to 20,000	ug/L
Cadmium	Furnace	0.2	0.2 to 2	ug/L
calcium	ICP	1000	0.5 to 1,000	mg/L
Chromium	ICP	10	8 to 20,000	ug/L
Cobalt	ICP	10	6 to 20,000	ug/L
Copper	ICP	10	6 to 20,000	ug/L
iron	ICP	100	80 to 1,000,000	ug/L
Lead	Furnace	2	2 to 30	ug/L
Lead	ICP	70	70 to 20,000	ug/L
Lithium	ICP	10	10 to 20,000	ug/L
Magnesium	ICP	1000	0.1 to 200	mg/L
Manganese	ICP	10	5 to 20,000	ug/L
Mercury	Cold vapor	0.2	0.1 to 2	ug/L
Molybdenum	ICP	15	15 to 20,000	ug/L
Nickel	ICP	20	15 to 20,000	ug/L
Potassium	ICP	2000	5 to 1,000	mg/L
Selenium	Furnace	2	2 to 30	ug/L
Silver	ICP	5	6 to 10,000	ug/L
Sodium	ICP	1000	1 to 1,000	mg/L
Strontium	ICP	10	10 to 20,000	ug/L
Sulfide	Titration	1	< 1	mg/L
Sulfide	Color	0.05	< 1	mg/L
Thallium	Furnace	2	2 to 30	ug/L
Titanium	ICP	25	25 to 20,000	ug/L
Tin	ICP	40	40 to 20,000	ug/L
Vanadium	ICP	10	5 to 20,000	ug/L
Yttrium	ICP	5	5 to 20,000	ug/L
Zinc	ICP	20	40 to 1,000,000	ug/L
Cyanide	AA	5.0	8 to 200	ug/L

Note: The above list may or may not contain compounds that are routinely analyzed at CRL for low level detection limits for drinking water.

See Inorganic Routine Analytical Services for related CAS #.

Table A
(Cont.)

CONTRACT LABORATORY PROGRAM
TARGET ANALYTE LIST
INORGANIC DETECTION LIMITS

Compound	Procedure	Water (µg/L)	Soil Sediment Sludge (mg/kg)
aluminum	ICP	200	40
antimony	furnace	60	2.4
arsenic	furnace	10	2
barium	ICP	200	40
beryllium	ICP	5	1
cadmium	ICP	5	1
calcium	ICP	5,000	1,000
chromium	ICP	10	2
cobalt	ICP	50	10
copper	ICP	25	5
iron	ICP	100	20
lead	furnace	3	1
magnesium	ICP	5,000	1,000
manganese	ICP	15	3
mercury	cold vapor	0.2	0.008
nickel	ICP	40	8
potassium	ICP	5,000	1,000
selenium	furnace	5	1
silver	ICP	10	2
sodium	ICP	5,000	1,000
thallium	furnace	10	2
tin	ICP	40	8
vanadium	ICP	50	10
zinc	ICP	20	4
cyanide	color	10	2

APPENDIX E

WELL LOGS OF THE AREA OF THE SITE

SUMMER HEALTH PROTECTION, 535 WEST
 61. DO NOT DETACH GEOLOGICAL/WATER
 LOG 2 : PROPER LOCATION

GEOLOGICAL AND WATER SURVEYS WELL RECORD

Completed 7-23-76

Non-Responsive

Driller Paul Barker License No. 92-563
 11. Permit No. 49891 Date July 21 1976
 12. Water from shale 13. County Kane
 Formation
 at depth 110 to 150 ft.
 14. Screen: Diam. in.
 Length: ft. Slot

Non-Responsive

15. Casing and Liner Pipe

Diam. (in.)	Kind and Weight	From (Ft.)	To (Ft.)
5	15# per ft.	0	100

Non-Responsive

16. Size Hole below casing: 5 in.
 17. Static level 60 ft. below casing top which is 1 ft.
 above ground level. Pumping level 90 ft. when pumping at 10
 gpm for 1 hours. Sub. pump set at 105'.

18. FORMATIONS PASSED THROUGH	THICKNESS Feet	DEPTH OF BOTTOM
Gravel	0	15
Clay	15	55
Clay and sand	55	80
Clay	80	100
Yellow lime Rock	100	110
Slade	110	150

(CONTINUE ON SEPARATE SHEET IF NECESSARY)

SIGNED Paul Barker DATE Aug 2-77

KANE

COUNTY No 24012

36-41N-8E

recycled paper

recycled paper

LOG 3

116, STATE OFFICE BUILDING, SPRINGFIELD,
ICAL / WATER SURVEYS SECTION. BE SURE TO

GEOLOGICAL AND WATER SURVEYS WELL RECORD

dated 2-27-75

Non-Responsive

Well No. _____

F. I. I.

License No. 112-7

Date Feb. 26, 1975

13. County KANE

at depth _____ to _____ ft.

14. Screen: Diam. _____ in.

Length: _____ ft. Slot _____

Non-Responsive

15. Casing and Liner Pipe

Diam. (in.)	Kind and Weight	From (Ft.)	To (Ft.)
4"	GALV	0	53'

Non-Responsive

16. Size Hole below casing: 2" in.

17. Static level _____ ft. below casing top which is _____ ft.
above ground level. Pumping level 10 ft. when pumping 150
gpm for 1 hours. Sub. pump set at 21'

18. FORMATIONS PASSED THROUGH	THICKNESS TOP	DEPTH OF BOTTOM
BLACK LOAM	0	12
SAND & GRAVEL	12	42
BLUE CLAY	42	45
SAND & GRAVEL	45	53

(CONTINUE ON SEPARATE SHEET IF NECESSARY)

SIGNED

DATE

KANE

FEB 27 1975

31-100-11

LOG 4

(22844-50M-4-86)

2

③

Page 1

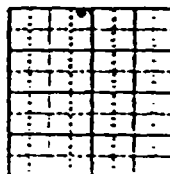
ILLINOIS GEOLOGICAL SURVEY, URBANA

Strata	Thickness	Top	Bottom
Gravel & boulders	10	0	10
Sand & clay	25	10	40
Boulders & sand	14	40	54
Lime	9	54	65
Blue shale	60	65	125
Soft lime & shale	25	125	150
Shale	115	150	265
Lime	23	265	288
			TD

Finished in lime to 288'.
 Cased with 5" from 0 to 54'.
 Size hole below casing: 5".
 Static level from surface: 30'.
 Tested capacity: 20 gallons per minute.
 Water lowered to 75'.

COMPANY **Fitz**
 FARM **Geneve Mfg. Co.**
 DATE DRILLED **1956**
 AUTHORITY **L. A. Reed**
 ELEVATION **700' - Co.**
 LOCATION **Ad. NE NE NW**
 COUNTY **KANE**

NO.
 COUNTY NO. **143**



35-12-82

REQUESTED AND MADE UNDER THE
SUMMER HEALTH PROTECTION, 535 WEST
§1. DO NOT DETACH GEOLOGICAL/WATER
PROPER LOCATION

LOG 5

GEOLOGICAL AND WATER SURVEYS WELL RECORD

Non-Responsive

Driller John C. Miller License No. 8 10237
11. Permit No. 21550 Date OCTOBER 20, 1978
12. Water from SEA 13. County KANE
at depth 40 to 100 ft.
14. Screen: Diam. 5"
Length: 60 ft. Size 20

Non-Responsive

15. Casing and Liner Pipe

Diam. (in.)	Kind and Weight	From (ft.)	To (ft.)
5"	BLACK 27	0	100

Non-Responsive

16. Size Hole below casing: 5 in. North Country Subd.
17. Static level 40 ft. below casing toe which is 1 ft.
above ground level. Pumping level 100 ft. when pumping at 40
gpm for hours. Sub pump set at 100'

18. FORMATIONS PASSED THROUGH	THICKNESS	DEPTH OF BOTTOM
TOP SOIL	1	4
Clay	4	8
Sand Gravel	51	103
Shale	10.3	200'

(CONTINUE ON SEPARATE SHEET IF NECESSARY)

SIGNED John C. Miller DATE Nov. 13 1978

KANE

COUNTY NO. 25512

12-40N-8E

SUMER HEALTH PROTECTION, 535 WEST
1. DO NOT DETACH GEOLOGICAL WATER
PROPER LOCATION

LOG 6

GEOLOGICAL AND WATER SURVEYS WELL RECORD

Non-Responsive

Driller Patrick A. Libens License No. 602-00034-6
11. Permit No. 81399 Date 10-31-78
12. Water from Shale Formation SE 1/4
at depth 163 to 300 ft.
13. County Kane
14. Screen: Diam. _____ in.
Length: _____ ft. Slot _____

Non-Responsive

15. Casing and Liner Pipe

Diam. (in.)	Kind and Weight	From (ft.)	To (ft.)
5	12 inch	0	164
	15 lb per ft		

Non-Responsive

16. Size Hole below casing: 5 in. Webber Grove 2nd Addition
17. Static level 50 ft. below casing top which is _____ ft.
above ground level. Pumping level 50 ft. when pumping at 10 +
gpm for 2 hours. Sub pump set at 105'

18. FORMATIONS PASSED THROUGH	THICKNESS	DEPTH OF BOTTOM
Brown sandy clay	85	85
Sand + gravel	30	115
gray sandy clay	15	130
Med. coarse gravel + sand	30	160
Broken lime, gravel + fine gravel	3	163
Hard shale	137	300

(CONTINUE ON SEPARATE SHEET IF NECESSARY)

SIGNED Patrick A. Libens DATE 12/15/78
M. Broz
KANE

COUNTY NO. 3-2-2-2

10-40N-8E